

COUNTY PALATINE OF LANCASTER.

REPORT

OF THE

MEDICAL OFFICER OF HEALTH

FOR THE YEAR 1919,

WITH STATISTICAL INFORMATION FROM REPORTS OF
DISTRICT MEDICAL OFFICERS OF HEALTH.

(Presented to the County Council, November 4th, 1920.)



COUNTY COUNCIL.

PRESTON :

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PUBLIC HEALTH AND HOUSING COMMITTEE (1920).

The Chairman of the County Council :

*Sir William Scott Barrett, Knight, D.L.

The Vice-Chairman of the County Council :

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Vice-Chairman :

*C. J. Trimble, Esq., C.B., C.M.G.

(* County Aldermen.)

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The Chairman of the County Council :

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REPORT OF THE MEDICAL OFFICER OF HEALTH

For the Year ended December 31st, 1919.

*To the County Council of the County Palatine of
Lancaster.*

Mr. Chairman and Gentlemen,

I have the honour to submit for your consideration the Thirty-first Annual Report on the health, sanitary condition, and administration of the Administrative County of Lancaster, for the year ended 31st December, 1919.

The tabular statement below compares the County birth and death rates of 1919 with the preceding year and with the mean of the ten years 1909-1918 :—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth- rate.	Death- rate.	*Epidemic Death- rate.	Phthisis Death- rate.	
1919.....	16.62	14.06	0.49	0.80	93
1918.....	16.08	17.26	0.96	1.07	100
Mean of 10 years 1909-1918	20.55	14.43	1.23	0.91	113
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.54	−3.20	−0.47	−0.27	−7
<i>Ten Years' Average</i>	−3.93	−0.37	−0.74	−0.11	−20

* See footnote, page xxx.

The year under report was characterised by a marked reduction in all the County mortality rates above quoted, the epidemic death-rate and the infant mortality rate being the lowest on record. The death-rates in 1919 from enteric fever, measles, and whooping cough were below any previously recorded. The fall in the general death-rate, as compared with the year 1918, was due mainly to the decrease in the deaths from influenza and pneumonia, but notwithstanding this decline, influenza, pneumonia, and bronchitis combined accounted for almost thirty per cent. of the total deaths from all causes.

Further progress is reported with regard to the County Council's scheme of child welfare. The scheme for the diagnosis and treatment of venereal diseases has developed, and arrangements have been made under which skilled medical treatment is now available in practically every part of the County area.

Additional legislation in regard to housing was placed on the statute book during 1919, and increased responsibilities in regard to housing are placed upon local Sanitary Authorities. The progress of new housing schemes in the County Area is reported in Table H.

Special reports received during 1919 from district Medical Officers of Health numbered 293, of which 101 referred to school closure owing to the prevalence of infectious disease.

The number of County districts specially reported upon as to their sanitary circumstances and administration by the County Public Health Staff is now 46.

From the Exchequer Contribution Account payments towards the salaries of Public Health Officials are made under Section 24 of the Local Government Act, 1888, to the Councils of 17 boroughs, 85 urban districts, 19 rural districts, and 2 port sanitary authorities. The total payments during the financial year ended March 31st, 1920, amounted to £16,897 16s. 6d., of which £6,962 7s. 10d. was in respect of Medical Officers of Health, and £9,935 8s. 8d. for Inspectors of Nuisances.

I take this opportunity of expressing my thanks to district Medical Officers of Health and their sanitary staffs for statistics and information supplied to the County Public Health Department during the year.

I am, Gentlemen,

Your obedient Servant,

J. J. BUTTERWORTH,

County Medical Officer of Health.

Public Health Department,
County Offices, Preston,
August, 1920.

THE COUNTY.

Area.—The area of the Administrative County on the 31st December, 1919, was 1,053,822 statute acres ; no change affecting the area of the County took place during the year.

The area of each County district, as extracted from the Census Report, 1911, is given in Table B, page xvi.

Population.—Normally, the difficulty of a correct estimation of the population, both of the whole country and of the various administrative divisions, increases as the last census becomes more distant, and this difficulty has been greatly increased by the war, which has had the effect of rendering useless the methods usually adopted for this purpose.

The method which has been in use by the Registrar-General from 1916 onward—based mainly upon the National Register and the returns made under the scheme for the rationing of food—has been continued for the year under report.

The Registrar-General in a memorandum to Medical Officers of Health, March, 1920, states that the “ death-rate population ” excludes all non-civilian males, whether serving at home or abroad. This is necessary for the purposes of local death-rates, because it has proved impossible to transfer the deaths of non-civilians to their areas of residence, or to deal in any other satisfactory manner with the local mortality of this element in the population.

The “ birth-rate (and marriage rate) population,” on the other hand, is intended to include all the elements of the population contributing to the birth and marriage rates. It consists, therefore, of the death-rate or civilian population, plus all non-civilians enlisted from this country, whether serving at home or abroad. This non-civilian element has been distributed over all the districts in the country in proportion to their estimated civilian population.

The local populations, used for birth-rate purposes by the Registrar-General, and the civilian populations used for death-rate purposes have been furnished to the local Medical Officers of Health.

The aggregate of the estimates for the urban and rural districts comprised within the Administrative County on the 31st December, 1919, are as follows :—

For calculating the <i>birth-rate</i>	...	1,732,056.
„ <i>death-rate</i>	...	1,662,716.

At the last census (1911) the enumerated population of the Administrative County was 1,739,320 (including certain Public Institutions), and since that date the excess of births over deaths has amounted to 87,487. By the extension of County Boroughs between 1911 and 1919, a loss of population, representing 40,240 persons, has been sustained.

The Registrar-General's estimate of the County population in 1919, for purposes of calculating the death-rate, is 124,171 more than his estimate for the preceding year, but is 86,943 less than the estimate of local Medical Officers of Health in the year preceding the war.

Table B, page xvi, shows the census enumeration of each borough, urban and rural district, and the estimated population for the year 1919 for both birth-rate and death-rate purposes.

The following table gives the area, population, persons per acre, &c., of the County on the 31st December, 1919, distinguishing the boroughs, urban, and rural districts :—

	Area in Acres.	Population.			Persons per Acre.	Acres per Person.
		*Census, 1911.	Estimate of Population, 1919.			
			For Birth-rate	For Death-rate	Calculated on Census figures.	
Municipal Boroughs (18).	77,983	546,183	559,254	536,866	7·00	0·14
Urban Districts (85)	260,867	906,227	943,622	905,845	3·47	0·28
Rural Districts (19)	714,972	232,708	229,180	220,005	0·32	3·07
Administrative County	1,053,822	1,685,118	1,732,056	1,662,716	1·59	0·62

* Excluding certain public institutions, *i.e.*, asylums.

Vital Statistics.—The system in vogue since 1916 under which the Registrar-General, through the County Public Health Department, supplied each district Medical Officer of Health with the details of the births and deaths registered in, or belonging to, his district, was continued in 1919.

The Registrar-General, in a memorandum accompanying the statistical information, directs the attention of Medical Officers of Health and others using the returns to “some points upon which experience has shown that misunderstandings tend to arise”: *e.g.*—

• “The numbers of births and deaths are those registered during the calendar year and are corrected for inward and outward transfers; they will differ, therefore, from uncorrected figures compiled locally either for the calendar year or for a period of fifty-two or fifty-three weeks.”

“The ‘classification’ of some deaths is modified in the light of fuller information obtained from the certifying practitioner in response to special inquiries. . . These possible sources of discrepancy between the returns of the Registrar-General and those compiled locally should be borne in mind, particularly in regard to the causes of death:”

Births and Birth-rates.—The births registered in, or belonging to, the area of the Administrative County during the year under report numbered 28,799, or 1,063 in excess of the number recorded in the previous twelve months.

The sex of the children born is shown below :—

	Males.	Females.	Total.
Urban Districts	12,679	12,250	24,929
Rural Districts	2,006	1,864	3,870
Administrative County ...	14,685	14,114	28,799

The male births exceeded those of females by 1·99 per cent. ; in 1918 this excess corresponded to 2·81 per cent. ; in 1917 to 2·47 ; and 2·49 per cent. in 1916.

The following table shows the County, urban, and rural birth-rates for the year 1919, calculated on the estimated population supplied by the Registrar-General (see page ix) ; also the rates for each year in the preceding decennial period. For comparative purposes the birth-rates for the whole country are also given :—

	Rate per 1,000 of the Estimated Population.										
	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909.
Urban Districts	16·58	16·09	16·27	18·54	19·91	22·19	22·41	22·09	22·88	22·47	23·67
Rural Districts..	16·88	16·06	16·08	18·59	18·95	20·95	20·86	21·42	21·15	22·52	22·91
Administrative County	16·62	16·08	16·25	18·54	19·78	22·02	22·20	22·00	22·64	22·48	23·57
England and Wales.....	18·5	17·7	17·8	21·6	21·8	23·8	23·9	23·8	24·4	24·8	25·6

The increase in the County birth-rate in 1919, as compared with the year 1918, corresponded to 0·54 per 1,000 of the estimated population,—in urban districts 0·49, and in rural districts 0·82—but the rate was 5·40 per 1,000 below that of 1914, the last year which so far as the births are concerned was unaffected by the war. It was 3·93 below the County average for the ten years 1909-1918, and 1·9 less than the provisional rate for the year 1919 for the whole of England and Wales.

The excess of births over deaths in 1919 was 5,405, as compared with an excess of about 17,500 ten years ago.

The mean birth-rates per 1,000 of population for the Administrative County for four quinquennial periods and for the year 1919 are given below :—

1899—1903	...	26·81	|	1909—1913	...	22·57
1904—1908	...	24·94	|	1914—1918	...	18·53
		1919	...	16·62		

The acceleration in the decline in the *number* of births in recent years will be seen from the following table :—

Year.	Total No. of Births in County.	Year.	Total No. of Births in County.
1911 ...	39,134	1916 ...	32,695
1912 ...	38,443	1917 ...	28,420
1913 ...	38,844	1918 ...	27,736
1914 ...	38,507	1919 ...	28,799
1915 ...	34,595		

The average annual number of births during the years 1916-1919 was 29,412, a decline of 9,320 each year on the average of the last four pre-war years.

The births and birth-rates of individual urban and rural districts in 1919 are tabulated in Table B, page xvi. In 31 districts the number of deaths of civilians during the year exceeded the total number of births. The majority of the districts remain fairly constant, either with high or low rates.

The highest birth-rates in 1919 were recorded in Haydock 29·4, Upholland 27·4, Golborne 26·3, Widnes (B.) 26·0, Ince-in-Makerfield 25·3, Aspull 24·8, Adlington 24·1, Litherland and Skelmersdale each 24·0, and Dalton-in-Furness 23·9. Low rates obtained in Tottington 10·5, St. Annes-on-the-Sea 10·1, Lytham 10·0, Croston 9·6, Nelson (B.) 9·0, and Grange-over-Sands 8·9.

Illegitimate Births.—The births of illegitimate children in 1919 were 12 less than in the preceding year, viz., 1,519, against 1,531. The percentage of these births to total births was 5·27, as compared with a percentage of 5·51 last year and 4·48 in 1917.

Deaths and Death-rates.—As in the three preceding years, the deaths included in this report for the year 1919 relate only to those occurring amongst the civilian population, as it has been found impossible to transfer the deaths of non-civilians to their areas of residence; and the death-rates are invariably based upon civilian deaths and civilian population. The statistics given in this report, both County and local, are taken from Returns made by the Registrar-General.

The total number of deaths of civilians registered in the Administrative County during the year 1919, after making the necessary corrections for inward and outward transfers, was 23,394, or 3,169 less than the aggregate for the year 1918 (26,563). In 1917 there were 21,937 deaths registered, and 23,197 in 1916.

The sex distribution of the persons dying in 1919 is shown below :—

	Males.	Females.	Total.
Urban Districts	9,901	10,324	20,225
Rural Districts	1,572	1,597	3,169
Administrative County ...	11,473	11,921	23,394

In the year 1918 the deaths of females in this County exceeded those of males for the first time since the year 1900. During the year under report (1919) female deaths were again in excess of those of males, the respective percentages being 50·95 and 49·04, a difference of 1·91. In the urban districts the excess of female deaths over those of males corresponded to 2·09, and in rural districts 0·79. In the whole Administrative County the deaths of females were to those of males as 1,039 is to 1,000—the ratios in the urban and rural districts being 1,042 and 1,015 to 1,000 respectively.

The County deaths at the various age periods are given below :—

Under 1 Year.	1 and under 2.	2 and under 5.	5 and under 15.	15 and under 25.	25 and under 45.	45 and under 65.	65 and upwards.	Total.
2,697	651	846	1,027	1,134	3,296	6,188	7,555	23,394

Table A is a classified statement of the causes of death in 1919, distributed in age groups and distinguishing the sexes, for the aggregate urban and aggregate rural districts.

The following table gives the County birth and death rates, and also those for England and Wales. The County

ADMINISTRATIVE COUNTY OF LANCASTER.

TABLE A.—CAUSES OF DEATH AT DIFFERENT PERIODS OF LIFE DURING THE YEAR ENDED
31ST DECEMBER, 1919.

CAUSES OF DEATH.	ADMINIS- TRATIVE COUNTY. TOTAL DEATHS.	Sex.	AGGREGATE OF URBAN DISTRICTS.									AGGREGATE OF RURAL DISTRICTS.								
			YEARS.									YEARS.								
			All Ages.	0—	1—	2—	5—	15—	25—	45—	65—	All Ages.	0—	1—	2—	5—	15—	25—	45—	65—
ALL CAUSES	23394	M. F. Total	9901 10324 20225	1391 966 2356	299 286 585	364 377 741	442 461 903	448 543 991	1329 1536 2865	2781 2616 5397	2847 3540 6387	1572 1597 3169	198 143 341	38 28 66	54 51 105	75 49 124	61 82 143	206 225 431	399 392 791	541 627 1168
1 Enteric fever	35	M. F.	15 15	.. ..	.. ..	.. ..	2 2	5 4	7 2	1 6	.. 1	4 1	.. ..	.. ..	.. ..	2 ..	.. 1	2..	....	....
2 Small-pox .. .. .	..	M. F.	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..
3 Measles	130	M. F.	64 60	14 12	23 15	20 20	7 10	.. 1	.. 1	.. ..	.. 1	3 3	1 1	2 1	.. 1	....	....	....	....	....
4 Scarlet fever	72	M. F.	24 43	1 ..	2 3	7 23	14 17	.. ..	.. ..	.. ..	.. ..	3 2	.. ..	.. ..	.. 1	2 1	1..	....	....	....
5 Whooping cough	86	M. F.	29 53	14 10	6 14	9 24	.. 5	.. ..	.. ..	.. ..	.. ..	3 1	1 ..	1 1	.. ..	1..	....	....	....	....
6 Diphtheria and croup	222	M. F.	86 115	2 3	5 7	39 37	37 64	1 2	2 2	.. ..	.. ..	9 12	.. ..	.. ..	4 8	4 3	1 ..	.. 1	....	....
7 Influenza	2463	M. F.	937 1137	38 33	22 24	30 37	42 64	75 140	279 380	290 286	161 173	192 197	9 7	5 3	11 11	16 6	13 32	57 68	42 44	39 26
8 Erysipelas.. .. .	34	M. F.	19 13	.. 3	.. ..	1 ..	1 ..	1 2	3 4	11 2	2 2	1 1	.. ..	.. ..	.. ..	.. ..	.. ..	.. 1	1..	....
9 Pulmonary tuberculosis	1339	M. F.	595 577	4 2	4 4	7 7	20 39	85 149	248 256	200 97	27 23	80 87	.. ..	.. ..	1 1	.. 6	13 18	38 37	25 21	3 4
10 Tuberculous meningitis	101	M. F.	30 56	5 7	2 9	6 18	13 15	3 4	1 3	.. ..	.. ..	5 10	.. 1	1 1	2 6	1 2	1..	....	....	....
11 Other tuberculous diseases	257	M. F.	123 110	8 4	8 6	12 17	29 24	25 21	23 22	17 8	1 8	11 13	1 2	1 ..	1 4	3 ..	2 2	.. 1	3 3	.. 1
12 Cancer, malignant disease	1793	M. F.	683 870	.. ..	.. ..	.. ..	3 2	2 3	57 105	365 467	256 293	91 149	.. ..	.. ..	.. ..	.. ..	1 1	5 18	51 72	34 58
13 Rheumatic fever	98	M. F.	34 54	.. ..	.. ..	.. 1	9 17	6 15	9 15	6 5	4 1	4 6	.. ..	.. ..	.. ..	2 1	1 2	1 1	.. 2	....
14 Meningitis.. .. .	159	M. F.	72 63	14 14	8 6	14 14	19 14	7 7	6 3	4 4	.. 1	17 7	7 2	1 1	3 ..	4 2	.. ..	.. 2	1 ..	1 ..
15 Organic heart disease	2323	M. F.	855 1146	1 ..	1 1	.. 2	13 19	38 29	105 139	318 393	379 563	148 174	.. ..	.. ..	.. ..	2 3	2 1	15 14	48 59	81 97
16 Bronchitis.. .. .	2410	M. F.	971 1161	139 111	40 40	20 22	12 9	11 5	35 40	259 252	455 682	132 146	24 14	3 2	2 2	.. ..	.. ..	2 3	24 31	77 94
17 Pneumonia (all forms)	1940	M. F.	972 726	206 100	106 84	89 83	56 55	39 38	152 100	223 142	101 124	141 101	23 23	13 9	14 9	8 3	7 3	19 12	36 25	21 17
18 Other respiratory diseases	313	M. F.	135 134	8 5	3 5	19 14	11 11	7 3	8 13	47 38	32 45	25 19	1 1	.. 2	1 1	2 ..	1 1	2 2	10 4	8 8
19 Diarrhoea, &c.	460	M. F.	227 182	127 82	19 20	19 11	9 9	.. 1	8 11	21 22	24 26	28 23	13 11	2 2	.. ..	2 1	.. 1	1 1	2 3	8 4
20 Appendicitis and typhlitis	109	M. F.	59 34	.. ..	.. ..	3 ..	18 8	15 12	11 6	11 6	1 2	9 7	.. ..	.. ..	.. ..	6 2	1 1	2 4	....	....
21 Cirrhosis of liver	63	M. F.	36 20	.. ..	.. ..	.. ..	.. ..	.. 1	6 3	21 11	9 5	4 3	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	3 2	1 1
21a Alcoholism	6	M. F.	4 ..	.. ..	.. ..	.. ..	.. ..	.. ..	2 ..	2 ..	.. ..	2 ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	2..	....
22 Nephritis and Bright's disease	609	M. F.	289 260	2 ..	2 1	2 5	13 8	9 7	53 46	134 121	74 72	34 26	.. ..	.. ..	1 ..	.. ..	.. ..	3 4	15 13	12 9
23 Puerperal fever	57	M. F.	.. 48	.. ..	.. ..	.. ..	.. ..	.. 12	.. 36	.. ..	.. ..	.. 9	.. ..	.. ..	.. ..	.. ..	.. 4	.. 5	....	....
24 Parturition, apart from puerperal fever	92	M. F.	.. 80	.. ..	.. ..	.. ..	.. ..	.. 9	.. 70	.. 1	.. ..	.. 12	.. ..	.. ..	.. ..	.. ..	.. 3	.. 9	....	....
25 Congenital debility, &c.	1120	M. F.	559 420	546 411	2 3	5 2	5 1	1 1	.. 1	.. 1	.. ..	81 60	81 56	.. 2	.. ..	.. 2	....	....	....	....
26 Violence, apart from suicide	662	M. F.	386 166	9 9	11 6	29 13	55 20	44 15	91 16	95 35	52 52	85 25	1 ..	2 ..	7 4	10 5	6 2	23 5	21 3	15 6
27 Suicide	176	M. F.	91 56	.. ..	.. ..	.. ..	1 1	5 8	24 18	49 22	12 7	25 4	.. ..	.. ..	.. ..	.. ..	1 ..	8 2	13 2	3 ..
28 Other defined diseases	6091	M. F.	2530 2655	250 156	32 32	33 26	48 44	69 53	191 233	669 661	1238 1450	422 484	36 23	2 4	7 3	10 10	10 8	26 33	96 105	235 298
29 Causes ill-defined or unknown	174	M. F.	76 70	3 3	3 6	.. 1	5 3	.. 1	8 11	38 36	19 9	13 15	.. 2	2 2	.. 2	2 2	6 3	3 4



County of Lancaster

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death-rates are calculated on the Registrar-General's estimate of the *civilian* population :—

		Birth-rate per 1,000 of the Population	Death-rate per 1,000 of the Population.	Death-rate from the Principal * Epidemic Diseases.	Rate of Infant Mortality measured by the propor- tion of deaths of infants under 1 year to 1,000 births.
Administrative County of Lancaster	Urban	16.58	14.01	0.52	94
	Rural	16.88	14.40	0.31	88
	Urban and Rural Districts combined	16.62	14.06	0.49	93
England and Wales		18.5	13.8	...	89

* Includes deaths from Diarrhoea and Enteritis under 2 years *only*.

The table below gives the death-rates of the County, distinguishing the urban and rural rates, and also the rates for England and Wales, from 1909 to 1919 :—

	Death-rate per 1,000 of the estimated Population.										
	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909.
Urban Districts	14.01	17.40	14.05	14.47	15.60	14.17	14.39	13.76	15.33	12.83	14.08
Rural Districts..	14.40	16.41	13.56	13.32	13.57	12.53	13.00	12.60	13.25	12.09	13.11
Administrative County	14.06	17.26	13.98	14.31	15.32	13.95	14.20	13.61	15.05	12.73	13.96
England and Wales.....	13.8	17.6	14.4	14.0	14.8	13.7	13.4	13.0	14.6	13.4	14.5

Comparison of the death-rate with previous years is still affected by the changes in the constitution of the population owing to the war, but perhaps not to such a marked extent in 1919 as in the preceding two or three years.

The County death-rate for 1919 was 3.20 per 1,000 of the estimated population below the rate of 1918, the decrease in the urban districts being 3.39 and in the rural districts 2.01.

As compared with the average for the past ten years, the County rate in 1919 was more favourable to the extent of 0·37 per 1,000, 0·59 less in the urban districts, but 0·06 higher in the rural districts. The County rate in 1919 was 0·2 per 1,000 above the provisional rate for the whole of England and Wales.

The marked fall in the County death-rate, as compared with 1918, was mainly due to the reduction in the number of deaths from influenza 2,029, pneumonia 664, whooping cough 392, pulmonary tuberculosis 313, &c.

Details of the deaths in the various sanitary areas, classified under 29 headings, are given in Table B, here inserted, and the mortality rates of each district in 1919 are compared with the preceding year and the mean of the decennial period 1909-1918 on pages 1 to 42.

The highest district death-rates in the year under report were attained in Fulwood 19·2, Radcliffe 18·3, Ormskirk 18·0, Morecambe (B.) and Whiston (R.) each 17·8, Longridge 17·3, Ashton-under-Lyne (B.) 17·1, Farnworth and Whitworth each 16·9, West Lancashire (R.) and Wigan (R.) each 16·8, and Heysham 16·7.

The annual death-rate of a district with a comparatively small population is liable to considerable fluctuations, and is not a reliable index of the state of health amongst its inhabitants. The following County districts have the highest mortality averages extending over a period of ten years:—Lees 19·2, Ince-in-Makerfield 18·6, Whitworth 17·9, Ashton-under-Lyne (B.), Heywood (B.), and Wardle each 17·5, Kirkham 17·4, and Royton and Widnes (B.) each 17·3.

Low rates in 1919 were recorded in Urmston 11·5, Fleetwood 11·4, Brierfield 11·3, Eccles (B.) 11·1, Adlington and Horwich each 10·9, Trawden 10·8, Rishton 10·5, Great Crosby 10·3, and Little Crosby 6·8. Covering a period of ten years, the County districts with the most favourable death-rates were—Little Crosby 10·3, Great Crosby 10·5, Formby 10·6, Urmston 10·8, St. Annes-on-the-Sea 11·0, Preesall 11·1, Nelson (B.) 11·5, Adlington and Stretford each 11·6, Carnforth and Rishton each 11·8, and Lunesdale (R.) 11·9.

TABLE B.--BIRTHS AND DEATHS REGISTERED DURING THE YEAR 1919 IN THE URBAN AND RURAL DISTRICTS OF THE ADMINISTRATIVE COUNTY OF LANCASTER; ALSO THE AREA AND POPULATION OF EACH DISTRICT.

NOTES.—The Area and "Census" Population of each District are taken from the Census Return.

The number of Births and Deaths in each District are supplied by the Registrar-Geueeral.

*†Birth and Death Rates are calculated on Estimated Populations for 1919 supplied by the Registrar-General.

URBAN DISTRICTS.	Area in Statute Acres.	Population at all ages.			Births.			Deaths.			Infant Mortality.		†Death-rate per 1,000 from the Seven principal Epidemic Diseases	‡Pulmonary Tuberculosis Death-rate per 1,000.	MORTALITY FROM SUBJOINED CAUSES.																																	
		Census, 1911.	Estimate of Civil Population for 1919		Number Registered.			*Birth-rate per 1,000.	Number Registered.			†Death-rate per 1,000.			Number of Deaths under One Year	Mortality per 1,000 Registered Births.	Enteric fever.	Small-pox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria and croup.	Influenza.	Erysipelas.	Pulmonary tuberculosis.	Tuberculous meningitis.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Meningitis.	Organic heart disease.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Diarrhoea, &c. (under 5 years).	Appendicitis and typhitis.	Cirrhosis of liver.	Alcoholism.	Nephritis and Bright's disease.	Puerperal fever.	Parturition, apart from puerperal fever.	Congenital debility, &c.	Violence, apart from suicide.	Suicide.	Other defined diseases.	Causes ill defined or unknown.	Special causes included in foregoing.	
			*For Birth-rate.	†For Death-rate.	M.	F.	Total.		M.	F.	Total.																																				Cerebro-spinal fever.	Polio-myelitis.
Abram.....	1984	6893	6498	6238	79	63	142	21·8	48	47	95	15·2	13	91	0·16	0·96	9	..	6	..	2	8	2	..	6	9	13	..	1	2	5	7	..	24	1	
Accrington (Borough)	3427	45029	45479	43658	307	333	640	14·0	364	319	673	15·4	73	114	0·48	0·66	5	..	4	11	67	..	29	2	7	59	4	4	72	66	55	8	1	4	1	..	18	2	5	35	11	2	194	7
Adlington	1062	4457	4390	4214	58	48	106	24·1	15	31	46	10·9	5	47	0·47	0·71	3	..	3	1	1	4	..	1	11	..	3	..	2	1	2	14	
Ashton-in-Makerfield	6251	21543	22150	21263	271	240	511	23·0	166	129	285	13·4	53	103	0·84	0·98	1	2	1	3	29	..	21	1	4	20	..	1	15	31	31	4	11	2	..	1	4	2	2	18	17	4	59	1
Ashton-under-Lyne (Borough)	1345	45172	45519	43697	430	393	823	18·0	370	380	750	17·1	98	119	0·41	0·96	1	..	1	1	..	5	76	1	42	4	11	60	2	4	70	98	77	7	10	..	2	..	30	1	4	37	22	4	179	1	1	..
Aspull J	1906	8276	7679	7276	87	101	188	24·8	72	42	114	15·6	25	132	1·09	0·96	2	14	1	7	..	1	4	10	10	25	..	6	..	1	..	4	7	..	1	20	1
Atherton	2265	18982	20390	19574	187	186	373	18·2	111	132	243	12·4	32	85	1·22	0·56	7	..	4	8	33	..	11	2	4	8	1	2	33	31	17	2	5	1	3	1	3	9	9	1	46	2
Audenshaw.....	1241	7977	8178	7851	83	55	138	16·8	51	45	96	12·2	16	115	0·25	0·50	1	7	..	4	..	2	8	..	2	11	9	8	2	1	2	..	1	6	2	..	30
Bacup (Borough)	6120	22318	21090	20246	154	123	277	13·1	143	144	287	14·1	28	101	0·19	0·44	2	1	23	1	9	1	6	20	1	..	29	47	12	4	1	..	1	..	11	1	2	13	6	..	95	1
Barrowford.....	1385	5527	5652	5426	36	26	62	10·9	24	46	70	12·9	5	80	0·55	0·36	5	..	2	4	..	1	15	9	3	..	3	2	2	23	1
Billinge	4596	4903	4749	4559	44	43	87	18·3	27	33	60	13·1	5	57	0·43	1·09	5	..	2	2	7	8	1	..	1	1	2	1	2	2	..	15	
Blackrod J	2392	3896	4057	3895	40	36	76	18·7	30	33	63	16·1	11	144	0·51	1·54	1	11	..	6	..	1	5	7	4	5	..	1	..	1	4	17	
Brierfield	807	8259	8779	8428	53	48	101	11·5	39	57	96	11·3	8	79	0·11	1·06	6	..	9	7	2	..	7	12	14	..	1	1	1	..	3	..	2	2	3	1	25	1
Carnforth	1505	3141	3326	3193	22	31	53	15·9	24	16	40	12·5	7	132	0·31	Nil.	1	4	1	2	..	2	3	6	2	2	3	14	
Chadderton	3082	28299	29742	28551	181	215	396	13·3	183	216	399	13·9	50	126	0·35	0·45	2	1	..	1	36	..	13	3	6	36	2	1	42	46	36	5	6	3	17	2	4	23	11	4	94	5
Chorley (Borough)	3614	30315	32912	31594	268	264	532	16·1	197	212	409	12·8	49	92	0·60	0·50	2	..	1	12	45	1	16	..	3	29	..	3	31	51	36	6	4	..	1	..	9	..	2	23	10	7	109	8
Church	529	6888	6744	6474	60	67	127	18·8	48	48	96	14·8	19	149	Nil.	0·46	9	..	3	1	3	6	..	1	9	13	12	1	1	1	..	9	25	2
Clayton-le-Moors	1059	8868	8804	8452	65	79	144	16·3	53	62	115	13·6	23	159	0·23	0·59	6	..	5	..	2	11	16	9	9	..	2	..	2	..	4	9	1	..	39	1	
Clitheroe (Borough)	2385	12500	12473	11974	98	78	176	14·1	88	75	163	13·6	19	107	0·16	0·58	1	18	..	7	1	3	13	21	18	10	..	1	13	7	4	1	44	1
Colne (Borough)	5063	25689	26924	25846	152	152	304	11·2	147	165	312	12·0	37	121	0·34	1·12	1	3	1	12	1	29	1	4	29	3	3	45	31	31	5	4	3	1	..	10	..	1	8	7	1	74	4	1	..
Crompton	2865	14750	15436	14818	81	108	189	12·2	89	94	183	12·3	20	105	0·47	0·80	1	2	..	3	9	2	12	18	1	3	21	15	11	2	1	2	1	..	3	..	2	9	4	2	55	4
Croston	2347	2041	1977	1898	10	9	19	9·6	12	15	27	14·2	1	52	0·52	0·52	1	8	..	1	..	1	1	4	1	1	1	1	1	..	6	
Daston-in-Furness J	7990	10763	13465	12926	174	148	322	23·9	99	82	181	14·0	25	77	0·23	1·16	3	28	1	15	1	5	22	..	3	2	22	12	1	1	..	2	..	1	7	5	..	50

TABLE B.—Continued.

URBAN DISTRICTS.	Area in Statute Acres.	Population at all ages.			Births.			Deaths.			Infant Mortality.		†Death-rate per 1,000 from the seven principal Epidemic Diseases.	†Pulmonary Tuberculosis Death-rate per 1,000.	MORTALITY FROM SUBJOINED CAUSES.																																	
		Census, 1911.	Estimate of Civil Population for 1919		Number Registered.			*Birth-rate per 1,000.	Number Registered.			†Death-rate per 1,000.			Number of Deaths under One Year	Mortality per 1,000 Registered Births.	Enteric fever.	Small-pox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria and croup.	Influenza.	Erysipelas.	Pulmonary tuberculosis.	Tuberculous meningitis.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Meningitis.	Organic heart disease.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhitis.	Cirrhosis of liver.	Alcoholism.	Nephritis and Bright's disease.	Puerperal fever.	Parturition, apart from puerperal fever.	Congenital debility, &c.	Violence, apart from suicide.	Suicide.	Other defined diseases.	Causes ill-defined or unknown.	Special causes included in foregoing.	
			*For Birth-rate.	†For Death-rate.	M.	F.	Total.		M.	F.	Total.																																				M.	F.
Radcliffe	3082	25691	24428	23450	195	176	371	15.1	208	223	431	18.3	38	102	0.89	0.93	6	6	..	3	39	2	22	1	8	36	2	5	35	80	19	4	6	2	1	..	13	1	..	15	13	3	103	6
Rainford	5877	3503	3448	3310	35	31	66	19.1	24	16	40	12.0	3	45	Nil.	Nil.	6	1	1	3	6	9	1	13	
Ramsbottom	6423	15146	15310	14697	100	110	210	13.7	92	119	211	14.3	15	71	0.40	0.74	1	1	..	2	21	..	11	..	5	26	1	2	12	13	17	2	2	1	2	..	14	8	4	3	61	2
Rawtenstall (Borough)	9535	30516	28521	27379	192	167	359	12.5	164	189	353	12.8	20	55	0.25	1.02	2	1	..	3	34	1	28	..	3	24	1	4	37	34	14	12	1	1	11	1	1	9	4	..	124	3	1	..
Rishton	2985	7441	7611	7306	46	60	106	13.9	36	41	77	10.5	9	84	0.41	0.41	1	9	..	3	9	1	..	5	6	8	..	2	1	2	..	4	5	5	..	15	1
Royton	2147	17069	18283	17551	114	105	219	11.9	116	123	239	13.6	31	141	0.62	0.79	3	4	9	..	14	..	3	22	1	1	29	25	14	4	4	1	1	..	9	1	1	12	7	5	68	1
St. Annes-on-the-Sea	3342	9837	9959	9560	43	58	101	10.1	63	73	136	14.2	8	79	1.04	0.83	1	17	..	8	1	1	17	..	1	15	5	6	2	..	2	2	5	3	3	45	2
Skelmersdale	1942	6822	6690	6422	77	84	161	24.0	48	45	93	14.4	15	93	1.09	0.46	1	1	10	..	3	2	..	8	9	9	12	..	5	1	2	..	4	3	1	21	1
Standish-with-Langtree	3266	7280	7279	6988	82	68	150	20.6	67	37	104	14.8	23	153	0.85	0.42	2	17	..	3	1	..	6	7	7	16	1	4	1	2	5	4	1	26	1
Stretford	3240	42496	47506	45603	286	326	612	12.8	275	287	562	12.3	47	76	0.21	0.96	1	..	2	..	1	2	64	2	44	4	7	63	..	5	65	41	39	9	4	3	1	..	10	2	2	22	14	2	151	2	2	..
Swinton and Pendlebury ..	2284	30759	29318	28144	275	276	551	18.7	198	182	380	13.5	53	96	0.74	0.85	1	..	4	9	3	1	31	1	24	1	7	27	3	..	35	41	39	7	3	2	1	..	10	..	1	25	11	3	89	1
Thornton	2996	4669	5331	5118	48	40	88	16.5	34	29	63	12.3	7	79	0.39	0.58	2	5	..	3	7	4	10	4	2	1	5	1	..	19
Tottington	2544	6769	7047	6765	33	41	74	10.5	46	52	98	14.4	6	81	1.03	1.18	2	1	..	12	..	8	1	1	4	1	..	12	7	9	..	4	1	2	1	3	..	28	1
Trawden	6815	2963	2779	2668	20	18	38	13.6	17	12	29	10.8	1	26	0.37	0.74	1	5	..	2	..	1	3	3	3	3	2	1	5	
Turton	17335	12648	12461	11962	84	67	151	12.1	79	82	161	13.4	10	66	0.33	0.41	3	16	..	5	1	2	16	3	..	10	19	5	2	1	1	5	3	7	..	61	1
Tyldesley-with-Shakerley ..	2490	15582	16255	15604	168	188	356	21.9	133	115	248	15.8	41	115	0.83	1.08	1	..	2	3	23	..	17	1	3	19	1	..	25	16	41	3	7	..	2	..	4	1	1	13	4	1	60
Ulverston	3172	9552	10389	9973	112	103	215	20.6	69	74	143	14.3	14	65	0.40	0.80	1	12	..	8	..	1	12	1	2	17	11	7	1	3	1	..	1	4	2	5	54
Upholland	4686	5233	5279	5068	77	68	145	27.4	31	29	60	11.8	8	55	0.78	0.19	1	15	..	1	3	1	..	4	6	3	1	3	1	3	5	4	..	9
Urmston	991	7912	8720	8371	64	52	116	13.3	44	53	97	11.5	4	34	0.23	0.83	1	1	9	..	7	7	14	10	10	3	2	1	..	2	3	2	24	1
Walton-le-Dale	4658	12350	12133	11647	93	94	187	15.4	69	79	148	12.7	16	85	0.68	0.85	1	..	4	10	1	10	2	2	11	2	..	15	10	8	4	3	4	..	1	7	4	1	45	3
Wardle	3192	13879	3443	3305	21	23	44	12.7	27	22	49	14.8	1	22	Nil.	1.51	2	..	5	3	..	1	4	6	4	1	2	..	19	2	
Waterloc-with-Seaforth	986	26396	29895	28698	272	285	557	18.6	210	211	421	14.6	41	73	0.97	1.14	7	5	1	8	46	..	33	3	1	34	1	4	33	28	44	8	7	1	13	12	17	3	108	4	3	..
Westhoughton	5560	15046	15809	15176	173	158	331	20.9	97	95	192	12.6	33	99	0.39	0.39	6	32	..	6	..	1	12	1	2	13	22	16	2	..	2	4	2	1	14	7	4	45	..	1	..
Whitefield	1404	6967	7738	7428	53	43	96	12.4	46	50	96	12.9	10	104	Nil.	0.80	5	..	6	..	2	10	1	..	18	13	10	2	6	3	..	20		
Whitworth	4483	8872	8584	8240	61	54	115	13.3	63	77	140	16.9	8	69	0.36	0.97	1	..	1	1	10	1	8	2	1	11	1	..	18	8	9	2	..	2	15	3	3	3	38	2
Widnes (Borough)	3093	31541	34052	32689	451	436	887	26.0	284	257	541	16.5	80	90	1.43	1.22	1	33	6	88	..	40	1	8	24	2	5	21	50	54	18	7	2	3	2	4	33	13	4	119	3



TABLE B.—Continued.

URBAN DISTRICTS.	Area in Statute Acres.	Population, at all ages.				Birth.			Deaths.			Infant Mortality.		Death-rate per 1,000 from the Seven principal Epidemic Diseases.	Pulmonary Tuberculosis Death-rate per 1,000	MORTALITY FROM SUBJOINED CAUSES.																																
		Census, 1911.	Estimate of Civil Population for 1919		Number Registered.	*Birth-rate per 1,000.	Number Registered.			†Death-rate per 1,000.	Number of Deaths under One Year	Mortality per 1,000 Registered Births.	Enteric fever.			Small-pox.	Measles.	Scarlet fever.	Whooping cough.	Diphtheria and croup.	Influenza.	Erysipelas.	Pulmonary tuberculosis.	Tuberculous meningitis.	Other tuberculous diseases.	Cancer, malignant disease.	Rheumatic fever.	Meningitis.	Organic heart disease.	Bronchitis.	Pneumonia (all forms).	Other respiratory diseases.	Diarrhoea, &c. (under 2 years).	Appendicitis and typhlitis.	Cirrhosis of liver.	Alcoholism.	Nephritis and Bright's disease.	Puerperal fever.	Parturition, apart from puerperal fever.	Congenital debility, &c.	Violence, apart from suicide.	Suicide.	Other defined diseases.	Causes ill defined or unknown.	Special causes included in foregoing.			
			M.	F.			Total.	M.	F.																																				Total.	M.	F.	Total.
Withnell	3705	3399	2962	2843	16	26	42	14.1	16	21	37	13.0	1	23	Nil.	0.70	1	..	2	..	4	1	..	11	3	1	..	2	1	..	11			
Worsley	5413	13906	15052	14449	116	94	210	13.9	95	109	204	14.1	23	109	0.13	0.48	1	..	1	29	..	7	1	..	15	20	24	24	2	1	..	4	..	3	10	6	3	53	
Total Urban Districts	338850	1452410	1502876	1442711	12679	12250	24929	16.5	9901	10324	20225	14.0	2356	94	§0.52	0.81	30	..	124	67	82	201	2074	32	1172	86	233	1553	88	135	2001	2132	1698	269	248	93	56	4	549	48	80	979	552	147	5346	146	18	..
RURAL.																																																
Barton-upon-Irwell	6793	9270	9052	8690	97	75	172	19.0	55	61	116	13.3	11	63	Nil.	0.80	14	..	7	1	1	12	1	2	7	14	4	3	..	1	1	1	2	5	8	..	32	
Blackburn	20150	†8920	8477	8138	48	71	119	14.0	48	69	117	14.3	8	67	0.12	0.86	10	..	7	11	..	1	14	13	12	1	1	1	4	..	2	38	2		
Burnley	41774	19848	18266	17535	121	106	227	12.4	106	132	238	13.5	23	101	0.34	0.51	1	3	23	..	9	..	1	25	..	2	28	28	18	6	2	2	5	2	..	9	5	3	63	3	
Bury	12016	9043	9063	8700	72	54	126	13.9	68	65	133	15.2	10	79	0.45	0.57	1	..	2	9	..	5	17	16	16	7	..	1	1	3	7	5	43	
Chorley	39988	21493	22625	21719	184	157	341	15.0	139	129	268	12.3	35	102	0.23	0.73	1	..	1	38	..	16	5	1	18	2	..	20	23	23	2	3	2	1	..	7	1	..	14	12	..	71	7
Clitheroe (Lancashire portion)	32168	6342	6496	6236	57	40	97	14.9	45	47	92	14.7	11	113	0.32	0.48	1	8	..	3	2	..	7	..	1	12	13	6	1	1	2	4	3	..	26	2	
Fylde	38541	11450	11493	11033	90	99	189	16.4	58	78	136	12.3	11	58	0.27	0.45	2	1	8	..	5	11	11	12	10	2	1	..	6	..	1	8	1	2	55	
Garstang	57380	10691	10738	10308	87	81	168	15.6	68	69	137	13.2	15	89	0.38	0.77	1	19	..	8	12	15	9	4	2	3	1	1	..	6	6	1	48	1		
Lancaster	54503	9085	8732	8382	76	83	159	18.2	61	64	125	14.9	15	94	0.47	1.07	2	..	2	6	..	9	1	1	11	13	7	13	1	..	1	..	3	12	5	..	38		
Leigh	11574	10077	10389	9973	87	111	198	19.0	89	64	153	15.3	20	101	0.40	0.70	2	19	..	7	..	1	12	..	1	21	14	19	1	2	3	1	..	6	4	1	39		
Limehurst	4689	10566	9281	8909	75	70	145	15.6	68	75	143	16.0	15	103	0.56	0.56	2	7	..	5	1	3	8	1	1	12	22	16	1	3	1	..	1	5	6	2	45	1		
Lunesdale	76267	6882	6154	5908	55	41	96	15.5	40	36	76	12.8	10	104	0.33	0.67	1	12	..	4	..	1	3	8	3	2	3	1	1	2	4	3	..	28	
Preston	52929	†18760	19323	18549	145	150	295	15.2	114	116	230	12.3	19	64	0.21	0.64	3	31	..	12	..	3	16	..	1	36	12	7	2	1	..	1	..	7	2	..	8	8	2	74	4	
Sefton	14867	5953	4899	4703	38	35	73	14.9	32	26	58	12.3	5	68	0.21	0.63	4	..	3	..	1	7	9	1	3	2	1	1	3	..	1	4	5	1	11	1	
Ulverston	127549	17019	16683	16015	179	160	339	20.3	109	129	238	14.8	25	73	0.18	0.99	2	..	1	25	..	16	1	2	20	1	1	31	19	6	4	..	2	7	1	4	9	8	6	70	2	
Warrington	19355	†11582	11630	11164	115	106	221	19.0	81	67	148	13.2	19	85	Nil.	0.98	19	..	11	..	4	7	1	3	5	13	19	3	1	..	3	..	1	7	10	1	39	1	
West Lancashire	61555	20683	20067	19264	182	177	359	17.8	164	160	324	16.8	31	86	0.36	0.67	2	4	76	1	13	..	1	22	1	5	32	19	20	6	1	2	1	..	2	..	1	13	5	1	94	2	..	1	
Whiston	31179	†18717	19692	18904	236	202	438	22.2	171	167	338	17.8	46	105	0.52	1.26	2	2	1	44	1	24	3	3	19	2	6	26	26	40	3	5	1	1	..	6	2	2	18	8	2	89	2
Wigan	11695	6327	6120	5875	62	46	108	17.6	56	43	99	16.8	12	111	0.68	0.51	1	17	..	3	1	1	2	1	..	6	14	13	1	3	2	2	6	..	26	
Totals:—																																																
Rural Districts	714972	232708	229180	220005	2006	1864	3870	16.8	1572	1597	3169	14.4	341	88	§0.31	0.75	5	..	6	5	4	21	389	2	167	15	24	240	10	24	322	278	242	44	28	16	7	2	60	9	12	141	110	29	920	28	..	1
Urban Districts	338850	1452410	1502876	1442711	12679	12250	24929	16.5	9901	10324	20225	14.0	2356	94	§0.52	0.81	30	..	124	67	82	201	2074	32	1172	86	233	1553	88	135	2001	2132	1698	269	248	93	56	4	549	48	80	979	552	147	5346	146	18	4
Administrative County	1053822	1685118	1732056	1662716	14685	14114	28799	16.6	11473	11921	23394	14.0	2697	93	§0.49	0.80	35	..	130	72	86	222	2463	34	1339	101	257	1793	98	159	2323	2410	1940	313	1276	109	63	6	609	57	92	1120	662	176	6275	174	18	5

‡ Population in Public Institutions of persons not belonging to the district excluded.

§ The epidemic death-rates, including deaths from diarrhoea at *all ages* are—County, 0·60; Urban Districts, 0·63; Rural Districts, 0·41. || Total diarrhoea, &c., deaths at *all ages*, 460.



Transferable deaths.—During the year under report the following transfers have been made :—3,214 persons, who, having a fixed or usual residence in the Administrative County, died in a district other than that in which they resided, and these (known as inward transfers) have been allocated to their proper districts; 4,015 deaths occurring in the County area of persons not belonging thereto have been outwardly transferred.

Infant Mortality.—The number of deaths in the Administrative County during the year 1919 of infants under the age of one year was 2,697, or 11·52 per cent. of the total deaths at all ages.

The total number of infant deaths in 1919 in the County was below that of any previous year.

The main causes to which the infant mortality was attributed are shown in the table below, which contrasts 1919 with the four preceding years :—

Cause of Death.	Deaths under 1 year.				
	1919.	1918.	1917.	1916.	1915.
All Causes	2697	2779	2748	3242	4130
Small-pox ... ..	...	...	...	1	...
Measles	28	54	75	67	183
Scarlet Fever	1	1	3	2	5
Whooping Cough	25	184	86	108	145
Diphtheria and Croup	5	11	5	5	10
Erysipelas	3	3	7	5	8
Tuberculous Meningitis...	13	19	23	18	38
Other Tuberculous Diseases	21	21	31	29	58
Meningitis	37	34	50	47	70
Bronchitis	288	265	286	334	390
Pneumonia (all forms) ...	352	344	334	376	509
Diarrhœa and Enteritis	233	229	221	371	548
Congenital Debility, Malformations, Premature Birth, &c. ...	1094	1002	1026	1200	1445
Other Causes	597	612	601	679	721

The County infant mortality rate corresponded to 93 per 1,000 registered births (urban districts 94, rural districts 88), the lowest rate ever recorded. Last year the rate was 100, 96 in 1917, 99 in 1916, and an average of 113 for the ten years 1909-1918. The County rate for 1919 was 4 per 1,000 in excess of the rate for the whole of England and Wales.

The following table gives the infant death-rates for the Administrative County, and those of England and Wales for the years 1909-1919 :—

	Rate of Deaths of Children under 1 Year to 1,000 Births.										
	1919.	1918.	1917.	1916.	1915.	1914.	1913.	1912.	1911.	1910.	1909.
Urban Districts.	94	101	96	101	123	115	128	106	148	121	119
Rural Districts..	88	90	94	82	94	96	100	89	111	93	87
Administrative County	93	100	96	99	119	112	124	104	144	117	115
England and Wales.....	89	97	97	91	110	105	109	95	130	106	109

In the table below the infant mortality in 1919 is contrasted with the four preceding quinquennia :—

Years.	Birth-rate per 1,000 of Estimated Population.	INFANT MORTALITY.		
		Rate of Deaths under One Year.		Percentage of Infant Deaths to Total Deaths at all ages.
		Per 1,000 Births.	Per 1,000 of the Estimated Population	
1899—1903	26·81	155	4·17	25·58
1904—1908	24·94	136	3·43	23·37
1909—1913	22·57	120	2·73	19·67
1914—1918	18·53	105	2·10	14·17
1919	16·62	93	1·62	11·52

It will be observed that the gradual reduction in the infant mortality rate is coincident with a continuously falling birth-rate, the decline in 1919, as compared with the first quinquennial period shown (1899-1903), being 38 and 40 per cent. respectively.

In four County districts the infant death-rate in 1919 exceeded 150 per 1,000 births, in 40 districts the rate was between 100 and 150, in 68 between 50 and 100, and in 10 districts a rate of less than 50 was recorded.

The highest infant death-rates in 1919 were recorded in Fulwood (9 deaths) 180, Clayton-le-Moors 159, Kirkham 156, Standish-with-Langtree 153, Church 149, Blackrod 144, Royton 141, Oswaldtwistle 133, Aspull and Carnforth each 132, and Haslingden (B.) 130.

Low rates prevailed in Urmston 34, Formby 28, Horwich 27, Trawden 26, Heysham 24, Withnell 23, Wardle 22, Grange-over-Sands and Little Crosby each nil.

Infant mortality in comparatively small districts is liable to annual fluctuation of considerable range, but in the following districts a high infant death-rate is obtained over a period of ten years :—

Lees	163	Orrell... ..	147
Kirkham	159	Farnworth ..	146
Ince-in-Makerfield ...	152	Skelmersdale ...	143
Ashton-under-Lyne (B.)	148	Hindley	142
Leigh (B.)	148	Aspull	141
Golborne	147		

Notification of Births Acts, 1907-1915.—The County Council is the Local Authority for the Administration of the Notification of Births Act, 1907, for the sanitary areas in which that Act had not been adopted at the time the 1915 Act became operative. This area consists of 79 districts, and, in addition, two other districts in which the Act had been adopted by the Local Authority are, by arrangement, included in the County Council's child welfare area.

From the above-mentioned area—81 districts—notifications were received in 1919 by the County Medical Officer of Health respecting 12,418 births, and copies of these were forwarded, week by week, to the County Health Visitors. The actual number of births registered in these districts totalled 12,618.

Maternity and Child Welfare.—Health Visitors.—Maternity and Child Welfare work in this County was carried out as under on the 31st December, 1919 :—

	Estimated Population for calculation of Birth-rate.	No. of Births registered in 1919.
By Local Sanitary Authorities—in 53 districts (17 boroughs, 35 urban and 1 rural district) ...	1,137,957 ...	18,848
By the County Council—in 69 dis- tricts (1 borough, 50 urban and 18 rural districts) ...	594,099 ...	9,951
	1,732,056 ...	28,799

The table below shows the action taken, up to 31st December, 1919, by *Local Sanitary Authorities* in the establishment of Child Welfare Centres and the appointment of Health Visitors :—

District.	Mother and Child Welfare Centre.	Health Visitor appointed.
Abram ...	Infant Welfare Centre	Whole time
Accrington (B.) ...	Do.	Whole time
Ashton-in-Makerfield	Do.	Whole time
Ashton-under-Lyne(B.)	Two Do.	Whole time (3)
Atherton ...	Do.	Whole time

District.	Mother and Child Welfare Centre.				Health Visitor appointed.
Bacup (B.)	Infant Welfare Centre				Health Visitor also acts as School Nurse.
Brierfield	Do.				Whole time
Chadderton	Maternity and Infant Welfare Centre				Whole time (1) Part time (1)
Chorley (B.)	Two Maternity and Infant Welfare Centres. Night and Day Nursery at Moss Cottage, Eaves Lane, opened November, 1919				Whole time (2)
Clayton-le-Moors ... ..	...	...	...	...	Whole time
Clitheroe (B.)	Maternity Centre				Health Visitor also acts as School Nurse
Colne (B.)	Do.				Whole time
Crompton	Infant Welfare Centre...				Whole time
Darwen (B.)	Two Maternity and Infant Welfare Centres. Day Nursery				Whole time
Denton	Maternity and Infant Welfare Centre				Whole time
Eccles (B.)	Mothers' and Babies' Welcome Club				Maternity Superintendent and two whole time Health Visitors
Failsworth	Infant Welfare Centre				Whole time
Farnworth	Maternity Centre				Whole time (2)
Golborne ... ..	...	...	...	...	Joint with Haydock
Great Harwood	Maternity and Infant Welfare Centre				Part time
Haslingden (B.)	Infant Welfare Centre				Whole time

District.	Mother and Child Welfare Centre.						Health Visitor appointed.
Haydock	Joint with Golborne
Heywood (B.)	Infant Welfare Centre being established at the Central Council School					Whole time, to commence duty April, 1920
Hindley	Maternity Centre. Antenatal Clinic				Whole time (1) Part time (1)
Horwich	Infant Welfare Centre				Whole time (2)
Hurst	School for Mothers, and Infant Consultations				Whole time
Ince-in-Makerfield	Two Infant Welfare Centres				Whole time (2)
Irlam	Maternity Centre in each Ward—Irlam and Cadishead				Whole time
Lancaster (B.)	Mothers' and Babies' Welcome				Four Health Visitors who also act as School Nurses
Leigh (B.)	Babies' and Mothers' Welfare Centre				Whole time (2)
Littleborough	Joint with Milnrow and Wardle
Middleton (B.)	Infant Welfare Centre				Whole time
Milnrow	Joint with Littleborough and Wardle
Mossley (B.)	Maternity and Infant Welfare Centre				Whole time
Nelson (B.)	Infant Welfare Centre				Whole time (2)
Newton-in-Makerfield			Do.				Whole time
Orrell	Do.				District Nurse acts as Health Visitor

District.		Mother and Child Welfare Centre.	Health Visitor appointed.
Oswaldtwistle	...	Infant Welfare Centre	Whole time
Padiham	...	Maternity and Infant Welfare Centre	Whole time
Prestwich	...	Two Infant Welfare Centres	Whole time
Radcliffe	...	... ..	Whole time
Ramsbottom	...	Infant Welfare Centre	Whole time
Rawtenstall (B.)	...	Three Infant Welfare Centres	School Nurse acts as Health Visitor, as- sisted by six part- time District Nurses who give half day per week
Royton	...	Infant Welfare Centre	Whole time
Stretford	...	Baby Clinic	Whole time
Swinton & Pendlebury		Baby Clinic and School for Mothers	Whole time (2)
Tyldesley-with- Shakerley		Maternity and Infant Welfare Centre	Whole time
Upholland	...	... ..	Part time
Wardle	...	... ..	Joint with Milnrow and Littleborough
Waterloo-with-Sea- forth		Maternity and Infant Welfare Centre ; also School for Mothers	Whole time
Westhoughton	...	Infant Welfare Centre	Whole time (2)
Widnes (B.)	...	Three Infant Welfare Centres	Whole time (3)
Barton-upon-Irwell (R.)		Infant Welfare Centres at Clifton, Davy- hulme, and Flixton	Whole time

COUNTY COUNCIL SCHEME.—The Medical and Nursing staff of the School Medical Department and the Maternity and Child Welfare staff of the Public Health Department were amalgamated on the 1st April, 1919. By this arrangement an end was put to an arbitrary division of work which could not be defended by any argument of economy or efficiency, and for the future the child will be under the supervision of one set of officials from birth onwards. Even the ante-natal life of the child is an object of the care of the combined department, and at the Child Welfare Centres which have been established, and in the Home Visits made by the nursing staff, advice and supervision is given to expectant mothers.

Complete co-ordination with the Public Health Department is ensured by the fusion of the Medical and Nursing staffs. The County Medical Officer of Health is also the School Medical Officer, and the Assistant School Medical Officers are also the Assistant County Medical Officers of Health, while the School Nurses are also the Health Visitors.

The following is a statement of the work done by the County Nurses during the twelve months ended 31st December, 1919 :—

Home Visits—

No. of first visits	...	...	...	...	9,610
No. of revisits	...	...	...	...	28,121
No. of individual children referred to in the above re-visits	...	...	...	...	25,540

Ante-Natal Visits—

No. of visits to expectant mothers	712
------------------------------------	-----	-----	-----

Other Visits—

Special visits to older children, local Medical Officers of Health, &c.	...	...	1,273
Special visits to cases of ophthalmia neonatorum and other cases	...	...	193
Reports to Central Office <i>re</i> insanitary conditions			133

Date		Description		Amount	
1884	Jan 1	Balance		100.00	
	Jan 10	Received from A. B.		50.00	
	Jan 20	Received from C. D.		25.00	
	Jan 30	Received from E. F.		75.00	
	Feb 10	Received from G. H.		100.00	
	Feb 20	Received from I. J.		50.00	
	Feb 30	Received from K. L.		25.00	
	Mar 10	Received from M. N.		75.00	
	Mar 20	Received from O. P.		100.00	
	Mar 30	Received from Q. R.		50.00	
	Apr 10	Received from S. T.		25.00	
	Apr 20	Received from U. V.		75.00	
	Apr 30	Received from W. X.		100.00	
	May 10	Received from Y. Z.		50.00	
	May 20	Received from A. B.		25.00	
	May 30	Received from C. D.		75.00	
	Jun 10	Received from E. F.		100.00	
	Jun 20	Received from G. H.		50.00	
	Jun 30	Received from I. J.		25.00	
	Jul 10	Received from K. L.		75.00	
	Jul 20	Received from M. N.		100.00	
	Jul 30	Received from O. P.		50.00	
	Aug 10	Received from Q. R.		25.00	
	Aug 20	Received from S. T.		75.00	
	Aug 30	Received from U. V.		100.00	
	Sep 10	Received from W. X.		50.00	
	Sep 20	Received from Y. Z.		25.00	
	Sep 30	Received from A. B.		75.00	
	Oct 10	Received from C. D.		100.00	
	Oct 20	Received from E. F.		50.00	
	Oct 30	Received from G. H.		25.00	
	Nov 10	Received from I. J.		75.00	
	Nov 20	Received from K. L.		100.00	
	Nov 30	Received from M. N.		50.00	
	Dec 10	Received from O. P.		25.00	
	Dec 20	Received from Q. R.		75.00	
	Dec 30	Received from S. T.		100.00	
	Total			2000.00	

TABLE E.

STATEMENT SHOWING SALES OF DRIED MILK ETC., AT THE CHILD WELFARE CENTRES
DURING THE YEAR ENDED 31ST DECEMBER, 1919.

Centre.	Foodstuffs, &c.	Stock during year.		Disposed of									Stock on hand 31st December, 1919.	
				At Cost Price or Over.			At Less than Cost Price.			Free.				
		Lbs.	Cost.	Lbs.	Amount received.	Profit.	Lbs.	Amount received.	Loss.	Lbs.	Loss.	Lbs.	Cost.	
Adlington ...	Glaxo ...	1392	£ s. d. 139 12 0	1359	£ s. d. 136 6 10	£ s. d. ...	1	£ s. d. 0 1 0	£ s. d. 0 1 2	19	£ s. d. 1 14 10	13	£ s. d. 1 8 2	
Audenshaw ...	Glaxo ...	2116	199 4 0	1923	178 13 10	...	...	...	...	121	12 14 2	72	7 16 0
	Cow and Gate ...	432	43 12 0	402	40 7 4	...	...	...	...	2	0 4 0	28	3 0 8
	Nestles' Milk... ..	144	8 0 0	69	3 19 7	0 6 5½	42	2 5 10½	0 3 2½	...	...	33	1 17 9¾
	Virol ...	168	9 0 0	123¾	10 5 7½	3 13 11½	...	...	...	...	...	44½	2 8 4¼
	Cartons ...	144	0 12 0	43	0 3 7	...	...	...	...	...	...	101	0 8 5
	Horlicks ...	60	4 19 0	10	0 16 10	0 0 4	...	...	...	...	...	50	4 2 6
Bamber Bridge ...	Glaxo ...	816	83 12 0	773	78 18 10	...	...	...	...	...	...	43	4 13 2
	Cow and Gate ...	192	19 4 0	146	14 4 4	...	...	...	...	...	...	46	4 19 8
	Virol ...	28	1 10 0	17¾	1 9 7	0 10 8½	...	...	...	...	...	10¼	0 11 1¼
	Feeding Utensils ...	276	3 6 0	179	2 2 9½	...	...	...	...	...	...	97	1 3 2½
Church ...	Glaxo ...	192	20 16 0	86	9 6 4	...	...	...	...	...	...	106	11 9 8
Droylsden ...	Glaxo ...	3024	303 12 0	2646	264 2 8	0 1 4	43	2 5 2	2 2 4	135	13 9 10	200	21 13 4	
	Cow and Gate ...	96	10 8 0	69	7 9 6	...	...	...	...	2	0 4 4	25	2 14 2
	Nestles' Milk... ..	144	8 9 0	87	5 5 1½	0 3 9¾	...	...	...	...	...	57	3 7 8¼
	Virol ...	56	3 0 0	44¼	3 13 9	1 6 5¾	...	...	...	...	...	11¾	0 12 8¾
	Cartons ...	144	0 12 0	99	0 8 3	...	...	...	...	...	...	45	0 3 9
Feniscowles ...	Glaxo ...	144	15 12 0	33	3 11 6	...	...	...	...	...	...	111	12 0 6
	Virol ...	45	2 8 1	2	0 3 4	0 1 10	...	...	...	15	0 16 3	28	1 10 4
Leyland ...	Glaxo ...	624	62 0 0	594	58 15 0	...	1	0 1 5	0 0 9	...	...	29	3 2 10
	Feeding Utensils ...	36	0 15 6	36	0 17 4½	0 1 10½	...	...	...	...	...	...	...
Litherland ...	Glaxo ...	1511	163 13 10	683	73 19 10	...	34	1 16 10	1 16 10	4	0 8 8	790	85 11 8	
	Cow and Gate ...	163	17 13 2	15	1 12 6	...	...	...	...	1	0 2 2	147	15 18 6
	Trumilk ...	33	3 6 0	...	...	...	...	...	...	1	0 2 0	32	3 4 0
	Virol ...	140	7 10 0	36½	3 0 10	1 2 11½	...	...	...	...	...	103½	5 12 1½
Little Hulton ...	Glaxo ...	672	68 0 0	615	61 16 6	...	...	...	...	...	...	57	6 3 6
Ormskirk ...	Cow and Gate ...	229	24 16 2	190	20 11 8	...	9	0 10 5	0 9 1	1	0 2 2	29	3 2 10	
	Virol ...	28	1 10 0	12¼	1 0 5	0 7 5¾	...	...	...	...	...	15¾	0 17 0¾
	Cartons ...	144	0 12 0	49	0 4 1	...	...	...	...	...	...	95	0 7 11
Prescot ...	Glaxo ...	5572	558 16 8	3839	380 7 2	...	171	8 16 9	7 19 9	1262	129 3 0	300	32 10 0	
	Cow and Gate ...	685	61 19 10	482	43 9 8	0 4 0	21	1 1 0	0 17 6	169	15 10 10	13	1 4 10	
	Virol ...	448	24 0 0	372¾	26 1 2	6 3 2¼	...	...	...	45	2 8 10	30½	1 13 2¼
	Cartons ...	1008	4 4 0	838	3 9 10	...	...	...	...	116	0 9 8	54	0 4 6
	Feeding Utensils ...	660	12 6 6	557	9 16 10	0 5 2	...	...	...	5	0 0 11½	98	2 13 10½
Rishton ...	Glaxo ...	192	20 16 0	79	8 11 2	...	...	...	...	...	...	113	12 4 10
St. Annes ...	Glaxo ...	48	5 4 0	10	1 1 8	...	...	...	...	...	...	38	4 2 4
	Virol ...	56	3 0 0	8	0 13 4	0 5 0	(Trans. to Feniscowles, 17lbs., 18/1)			11	0 11 11	20	1 1 8	
Skelmersdale ...	Cow and Gate ...	330	34 2 0	209	21 1 6	...	...	...	...	5	0 10 10	116	12 9 8
	Virol ...	28	1 10 0	3¼	0 5 5	0 2 2¾	...	...	...	...	...	24¾	1 6 9¾
	Feeding Utensils ...	204	1 14 6	20	0 5 0	...	...	...	...	...	...	184	1 9 6
Walkden ...	Glaxo ...	1536	158 8 0	1195	121 11 0	0 1 10	...	...	...	15	1 12 6	326	35 6 4
	Cow and Gate ...	384	38 8 0	254	24 7 8	...	...	...	...	4	0 7 4	126	13 13 0
	Virol ...	224	12 0 0	189½	15 15 10	5 13 2½	...	...	...	3	0 3 3	31½	1 14 1½
	Carton ...	288	1 8 0	166	0 13 10	...	39	0 3 3	0 2 0	...	0 2 0	83	0 6 11	
Worsley ...	Glaxo ...	480	47 4 0	407	39 5 10	...	...	...	...	...	...	73	7 18 2
	Virol ...	84	4 10 0	52¾	4 7 11	1 11 9¼	...	...	...	1	0 1 1	30¼	1 12 9¼
	Cartons ...	144	0 14 0	13	0 1 1	...	...	...	...	...	0 2 0	131	0 10 11

The following is a Summary of Attendances at the Child Welfare Centres during the twelve months ended 31st December, 1919 :—

No. of Times the Centres were open ... 589

No. of Individual Children attending—

Under 1 year of age	...	...	...	5,054
From 1—2 years of age	...	...	...	1,125
Over 2 years of age	...	...	...	755
			—	6,934

No. of Attendances by Children—

Under 1 year of age	...	...	...	9,817
From 1—2 years of age	...	...	...	2,034
Over 2 years of age	...	...	...	1,091
			—	12,942

No. of Attendances by Expectant Mothers ... 202

No. of Attendances by Other Women ... 5,751

The following is a statement showing the number of necessitous cases of children under 5 years of age, nursing or expectant mothers, who have been supplied with milk, &c., during the year ended 31st December, 1919 :—

Food Supplied.	At Less than Cost Price.		Free of Cost.		Total.	
	No. of Cases.	Quantity supplied.	No. of Cases.	Quantity supplied.	No. of Cases.	Quantity supplied.
Fresh Milk ...	5	144½ pts.	60	1529½ pts.	65	1674 pts.
Glaxo ...	20	250 lbs.	89	1556 lbs.	109	1806 lbs.
Cow & Gate	2	30 lbs.	17	184 lbs.	19	214 lbs.
Virol ...	...	...	23	75 lbs.	23	75 lbs.

Table E, here inserted, shows the sales of Dried Milk, &c., at the Child Welfare Centres.

The following is a list of the Child Welfare Centres which have already been established :—

District.	Address of Centre.	Nurse.	Medical Officer.	Day and Time Open.
Adlington	Wesleyan Sunday School, Market St. ...	Miss M. Kennedy	Dr. R. B. Berry	Wednesday, 2-0—4-0
Aspull (New Springs)	Independent Methodist Sunday School, New Springs	Miss M. C. Williams	Dr. L. E. H. R. Barker	Wednesday, 2-0—4-0
Audenshaw	Hooley Hill Independent Church, Bridge Street	Miss M. G. Dickinson	Dr. E. R. Cooper	Monday, 2-30—4-0
Barrowford	Congregational Sunday School, Hill Top	Miss J. Hallett	Dr. C. L. Corbett	Thursday, 2-0—4-0
Bamber Bridge	Conservative Club, Cranborne Road ...	Mrs. M. C. Hoey	Dr. R. B. Berry	Thursday, 2-0—4-0
Broughton	Broughton Club, near Preston	Mrs. M. C. Hoey	Dr. G. G. Wray	Wednesday, 2-0—4-0
Briercliffe	Tennyson Street Mission Hall ...	Miss J. Hallett	Dr. C. L. Corbett	Alternate Wednesday, 2-30—4-0
Church ...	Baptist Sunday School, Ernest Street	Miss A. Guthrie	Dr. H. Holroyd	Thursday, 2-0—4-0
Dalton ...	Carnegie Library ...	Miss M. Steele	Dr. J. R. Jagger	Thursday, 2-0—4-0
Droylsden	Wesleyan Schools, Manchester Road ...	Miss A. Smith	Dr. E. R. Cooper	Tuesday, 2-30—4-0
Feniscowles	Mission Hall, Preston Old Road	Miss A. Macqueen	Dr. H. Holroyd	Tuesday, 2-0—4-0
Fleetwood	Wesleyan Methodist Sunday School, North Church Street	Miss E. Knowles	Dr. R. J. Batty	Tuesday, 2-0—4-0

District.	Address of Centre.	Nurse.	Medical Officer.	Day and Time Open.
Fleetwood ...	Elm Street Mission Hall ...	Miss E. Knowles ...	Dr. R. J. Batty ...	Wednesday, 2-0—4-0
Hale Bank ...	Wesleyan Sunday School ...	Miss M. R. McLean ...	Dr. E. H. Brook ...	Alternate Tuesday, 2-0—4-0
Kearsley ...	Council Offices ...	Miss V. Lydall ...	Dr. E. H. Walker ...	Thursday, 2-0—4-0
Leyland ...	Congregational Schools, Quin Street ...	Mrs. A. McTaggart ...	Dr. G. G. Wray ...	Thursday, 2-30—4-0
Leyland ...	Bradshaw Street Mission Room ...	Mrs. A. McTaggart ...	Dr. G. G. Wray ...	Alternate Wednesday, 2-0—4-0
Little Lever ...	Church House Institute ...	Miss G. J. Wellard ...	Dr. E. H. Walker ...	Tuesday, 2-30—4-0
Longridge ...	Drill Hall ...	Mrs. M. C. Hoey ...	Dr. G. G. Wray ...	Alternate Tuesday, 2-0—4-0
Litherland ...	32, Linacre Road ...	Miss M. Robinson Miss E. Shaw ...	Dr. W. Rutherford ...	Tuesday, 2-0—4-0
Lytham ...	Albert Street Mission Hall ...	Miss A. Brand ...	Dr. R. J. Batty ...	Thursday, 2-0—4-0
Morecambe (B.) ...	West End Wesleyan Sunday School ...	Miss G. Menzies ...	Dr. J. A. Tomb ...	Monday, 2-0—4-0
Ormskirk ...	Church House, Church Street ...	Miss H. Dickinson ...	Dr. G. Scholefield ...	Tuesday, 2-0—4-0
Prescot ...	Parish Rooms, Warrington Road ...	Miss A. Walters Miss Hughes ...	Dr. E. H. Brook ...	Monday and Thursday, 2-0—4-0
Skelmersdale ...	Congregational Schools, Witham Street ...	Miss A. E. Fry ...	Dr. E. H. Brook ...	Wednesday, 11-0—1 p.m.

District.	Address of Centre.	Nurse.	Medical Officer.	Day and Time Open.
Ulverston	Ratton Row Mission Hall	Miss M. F. Crosbie	Dr. J. R. Jagger	Tuesday, 2-0—4-0
Urmston	Co-operative Hall, Higher Road	Miss E. M. Lawley	Dr. E. H. Scholefield	Tuesday, 2-0—4-0
Walkden	Town Hall, Worsley	Miss A. I. Murphy	Dr. E. H. Scholefield	Thursday, 2-30—4-0
Waterloo	United Methodist Sunday School	Miss E. C. Collins	Dr. E. R. Cooper	Alternate Thursday, 2-0—4-0
Whitefield	“ Uplands ”	Mrs. F. Tregarthen	Dr. H. F. Hutchinson	Tuesday, 2-30—4-0
Whitworth	Registry Office, Station Road, Facit	Miss M. Rochell	Dr. Forbes	Thursday, 2-45 —4-0
Worsley	Court House	Miss A. I. Murphy	Dr. E. T. Scowbie	Wednesday, 3-0—4-0

BRANCH CENTRES FOR DRIED MILKS.

District.	Address of Centre.	Day and Time Open.
Bromley Cross	Council Offices	Tuesday, 2-0—4-0
Clayton-le-Moors	Council Offices	Monday, 2-0—4-0
Little Hulton	Council Offices	Monday, 2-0—4-0
Rishton	Council Offices	Monday, 12-0—2-0

OPHTHALMIA NEONATORUM.—Ophthalmia neonatorum was made a notifiable disease on the 1st April, 1914, *i.e.*, every case must be notified to the Local Medical Officer of Health. Usually these cases are notified by a Medical Practitioner, but in many cases they are reported by a Certified Midwife. It is the duty of the midwife in such cases to advise that a doctor be sent for, and to send a copy of the Record to the County Medical Officer of Health at the Central Office.

The particulars of every case of ophthalmia neonatorum which is reported to the Local Medical Officer of Health are transmitted by him to the County Medical Officer of Health.

On receipt at the Central Office of the notification of a case of ophthalmia neonatorum at an address which is included in an area under the jurisdiction of the Lancashire County Council for Maternity and Child Welfare purposes, the County Health Visitor is immediately informed and is requested to visit the case at once. A special Form is forwarded to the County Nurse, on which she is asked to make a full report of the case.

When a Medical Practitioner has been in attendance on the case his name and address is forwarded to the County Nurse, and she is requested to visit him, in the first instance, with regard to the case.

During the period from the 24th September, 1919, to the 31st December, 1919, 26 cases were visited and kept under observation by the County Health Visitors. In some cases the Nurse was accompanied by one of the Assistant County Medical Officers.

The Principal Epidemic Diseases. — For statistical purposes, and for comparison with previous years, under this head are grouped together small-pox, measles, scarlet fever, diphtheria (including membranous croup), whooping cough, fever (including enteric, typhus, and continued fever), and *diarrhoea and enteritis.

* See note, next page.

The deaths assigned to these diseases in the aggregate numbered 821 (urban districts 752, rural districts 69), a diminution as compared with the year 1918 of 658, or nearly 45 per cent.

The following table compares the notified cases and the deaths in 1919 with the previous year :—

	Small-pox.	Measles.	Scarlet fever.	Diphtheria.	Whooping cough.	Enteric fever.	*Diarrhoea.
Notified cases :—							
1919... ..	4	13021	4080	1789	†	152	†
1918... ..	1	21653	1961	1592	†	319	†
Increase or decrease in 1919	+3	—8632	+2119	+197	...	—167	...
Deaths :—							
1919... ..	...	130	72	222	86	35	*276
1918 .. ...	...	319	49	244	478	91	*298
Increase or decrease in 1919 ... ..	...	—189	+23	—22	—392	—56	—22

* The Registrar-General, in his statistics for the whole country, includes under the heading of Diarrhoea and Enteritis *only* those deaths occurring amongst children *under the age of two years*, and for comparative purposes the Administrative County deaths and death-rates since 1916 have been similarly classified; in preceding years the County diarrhoea totals and rates included deaths *at all ages*. The *total* diarrhoea deaths in the Administrative County in 1919 numbered 460, or 99 less than in 1918.

† Not notifiable.

The County death-rate in 1919 from these epidemic diseases, calculated per 1,000 of the estimated civilian population, was 0·49 (urban districts 0·52, rural districts 0·31), as compared with a rate of 0·96 in 1918, 0·78 in 1917, 0·88 in 1916, and an average of 1·23 for the ten years 1909-1918. The rate for the year under report is considerably below any previously recorded, the next lowest being 0·78 in 1917.

The following table gives the epidemic death-rates for the County during 1919, compared with the ten years 1909-1918 :—

YEAR.	Annual Death-rate per 1,000 of the population.							
	Principal Epidemic Diseases.	Small-pox.	Measles.	Scarlet Fever.	Diphtheria (including Membranous Croup).	Whooping Cough.	* Enteric Fever.	† Diarrhœa and Enteritis.
1909	1.06	nil.	0.35	0.12	0.15	0.14	0.10	0.18
1910	1.00	nil.	0.15	0.10	0.11	0.23	0.10	0.29
1911	2.25	nil.	0.29	0.08	0.14	0.15	0.12	1.43
1912	1.12	nil.	0.30	0.05	0.12	0.24	0.08	0.30
1913	1.57	nil.	0.31	0.05	0.11	0.13	0.10	0.85
1914	1.25	nil.	0.28	0.09	0.13	0.18	0.07	0.48
1915	1.52	nil.	0.49	0.08	0.14	0.20	0.07	0.52
1916	† 0.88	0.003	0.17	0.06	0.15	0.14	0.05	† 0.27
1917	† 0.78	nil.	0.27	0.03	0.13	0.11	0.04	† 0.18
1918	† 0.96	nil.	0.20	0.03	0.15	0.31	0.05	† 0.19
County Average 10 years.	† 1.23	0.0003	0.28	0.06	0.13	0.18	0.07	† 0.46
† 1919								
COUNTY	0.49	nil.	0.07	0.04	0.13	0.05	0.02	0.16
Urban	0.52	nil.	0.08	0.04	0.13	0.05	0.02	0.17
Rural	0.31	nil.	0.02	0.02	0.09	0.01	0.02	0.12

* Prior to 1911 the "fever" death-rate included deaths from typhus and continued fevers (if any). † Enteritis deaths included since 1911. ‡ Since 1916 the County epidemic death-rates and diarrhœa death-rates include deaths from diarrhœa and enteritis under two years of age *only*. Including the total diarrhœa deaths at all ages the County epidemic death-rate in 1919 was 0.60, and the diarrhœa death-rate 0.27. In 1918 these rates were 1.13 and 0.36 respectively.

The epidemic death-rate of each County district is shown in Table B, page xvi.

In 35 districts the rate was below 0·25 per 1,000

47	„	„	between 0·25 and 0·50 per 1,000
29	„	„	„ 0·50 and 1·00 per 1,000
11	„	„	over 1·00 per 1,000

The highest epidemic death-rates were recorded in 1919 in Leigh (B.) and Widnes (B.) each 1·43, Lytham 1·42, Little Lever 1·30, Atherton 1·22, Aspull and Skelmersdale each 1·09, St. Annes-on-the-Sea 1·04, Tottington 1·03, and Hindley and Litherland each 1·01.

Extending over a period of ten years, the following districts produced high epidemic death-rates:—

Ince-in-Makerfield	...	3·07	Haydock	...	...	2·35
Aspull	...	2·90	Leigh (B.)	...	...	2·32
Golborne	...	2·60	Tyldesley-with-			
Widnes (B.)	...	2·56	Shakerley	...	...	2·28
Hindley	...	2·44	Prescot	...	...	2·27
Ashton-in-Makerfield...		2·42				

Small-pox.—In the year 1919 four cases of small-pox were reported in the Administrative County area, all at Eccles (B.). Three other suspected cases came to the knowledge of the County Public Health Department, but on enquiry the diagnosis was not confirmed.

The four cases in Eccles were notified on December 21st, and two others cases were reported on January 2nd, 1920.

In August a report was received by the County Public Health Department that a case of small-pox had occurred in a Lancashire County Borough, and that a number of residents in the County area had been in contact. The districts concerned were visited by the County Public Health Staff, working in conjunction with the local officials, and all the contacts were kept under observation. No spread of the disease took place.

The incidence of small-pox in the Administrative County since 1890 is given below :—

Year.	Cases.	Deaths	Year.	Cases.	Deaths.
1890.....	1	0	1905.....	255	6
1891.....	2	0	1906.....	233	0
1892.....	612	70	1907.....	13	1
1893.....	1038	84	1908.....	2	1
1894.....	259	25	1909.....	7	0
1895.....	100	19	1910.....	23	0
1896.....	83	10	1911.....	21	0
1897.....	3	0	1912.....	1	0
1898.....	6	1	1913.....	10	0
1899.....	16	1	1914.....	14	0
1900.....	59	3	1915.....	3	0
1901.....	6	0	1916.....	46	6
1902.....	436	22	1917.....	0	0
1903.....	1156	68	1918.....	1	0
1904.....	422	22	1919.....	4	0

VACCINATION.—The last issued report of the Medical Department of the Local Government Board (1918-1919) states :—“The statistics show that during the five years 1913-1917 the number of children vaccinated has continued to decrease, and the number of children exempted by statutory declaration has continued to increase. The percentage vaccinated in 1917 was 43·3, the percentage exempted 37·9, while 12·0 per cent. of the children born in that year were unaccounted for as regards vaccination. The percentage of the children vaccinated of the number born probably decreased to about 40 per cent. in 1918.”

The 1917 figures show that the proportion of vaccinated children to the births varied within considerable limits. The proportion for England and Wales was 43·3 per cent. In the Counties, Cheshire is highest with 57·8 per cent., followed by Lancashire with 54·8 per cent.

The report referred to points out that the circumstances of the war have had the effect of increasing the number of

persons who have been revaccinated, for although revaccination was not compulsory throughout the new army, still a very large proportion were revaccinated.

In conclusion, the report states:—"The position, therefore, is that, while the adult population is better protected against attack by small-pox than has previously been the case, this proportion is unequally distributed between the sexes; and as regards the child population, only about half the children under 10 years of age have been vaccinated.

"In recent occurrences of small-pox in this country, prompt notification of cases, speedy isolation of the patients, and diligent inquiry as to contacts to secure their immediate vaccination, have been successful in preventing the spread of infection, but such measures cannot be implicitly relied on when small-pox breaks out in a population unprotected by vaccination."

In August, 1919, the Ministry of Health issued a memorandum as to the supply and use of vaccine lymph for vaccination or revaccination of persons who may have been exposed to small-pox infection.

Measles.—In 1919 there were 130 deaths from measles registered in the Administrative County, against 319 deaths in the year 1918, a reduction of 189. In 1917 there were 428 deaths, 286 in 1916, and 817 in 1915.

The ages at death in 1919 were as follow:—

Under 1 year	...	...	... 28 or 21·5 per cent.
Between 1 year and 5 years	...	...	... 82 or 63·0 per cent.
Five years and upwards	...	...	... 20 or 15·3 per cent.

The County death-rate from this disease—more favourable than in any preceding year—was 0·07 per 1,000 of the population (urban districts 0·08, rural districts 0·02), against 0·20 in 1918, 0·27 in 1917, and an average of 0·28 for the ten years 1909-1918. The measles death-rate for England and Wales in 1919 was 0·10.

The highest district death-rates from this disease were :—
Leigh (B.) 0·53, Little Lever 0·43, Farnworth 0·35, Middleton (B.) 0·32, Radcliffe 0·25, Lancaster (B.) and Waterloo-with-Seaforth each 0·24, Prescott and Lancaster (R.) each 0·23, and Limehurst (R.) 0·22.

Under the Public Health (Measles and German Measles) Regulations, 1915, 13,021 cases were notified, a reduction of 8,632 cases, as compared with 1918. The case mortality was 0·99 per cent. ; in 1918 it was 1·49, and 1·56 in the years 1917 and 1916. The monthly incidence showed a gradual rise from 350 cases in January to 2,500 cases in December.

School closure on account of the prevalence of measles was required in only 21 districts, as compared with 54 districts in the previous year.

By “ The Public Health (Measles and German Measles) Regulations, 1915, Rescission Order, 1919,” the previous Regulation requiring the notification of measles and German measles was rescinded as from the 31st December, 1919.

Scarlet Fever.—The gradual decline in the prevalence of scarlet fever in the County area which had been taking place for some years, as shown by the statement below, was arrested during the year under review :—

		Cases Notified		Deaths.
1914	.....	8,275	.....	169
1915	.....	7,526	.....	141
1916	.....	5,176	.....	113
1917	.....	2,655	.....	56
1918	.....	1,961	.....	49
1919	.....	4,080	.....	72

The scarlet fever death-rate in 1919 was 0·04 per 1,000 of the population (urban districts 0·04, rural districts 0·02), against a rate of 0·03 in 1918 and 1917, 0·06 in 1916, and an average of 0·06 for the ten years 1909-1918.

The case mortality in 1919 corresponded to 1·76 per cent., as compared with 2·49 per cent. in 1918. Of the total deaths,

51·3 per cent. were amongst children under the age of five years.

Notifications were most numerous in Swinton and Pendlebury 324 (9 deaths), Ashton-in-Makerfield 225 (2 deaths), Eccles (B.) 219 (4 deaths), Litherland 181 (8 deaths), Fleetwood 176 (no deaths), Waterloo-with-Seaforth 164 (5 deaths), Radcliffe 123 (6 deaths), and Hindley 112 (1 death).

Of the total scarlet fever cases notified, 47·0 per cent. were removed to hospital ; in 1918 the percentage of removals was 50·5. In ten districts all the cases were removed, and in 13 districts over 80 per cent. of removals took place.

Schools were closed on account of this disease in seven districts.

Whooping Cough.—The deaths under this heading numbered only 86, against 478 in the year 1918.

The ages at death were :—

Under 1 year	25 or 29·0 per cent.
Between 1 year and 5 years ...	55 or 63·9 per cent.
Five years and upwards ...	6 or 6·9 per cent.

The mortality rate was 0·05, as compared with 0·31 in 1918, and an average of 0·18 for the ten years 1909-1918. The rate for England and Wales in 1919 was 0·07.

Of the 86 deaths, 33 occurred in Widnes (B.) and 10 in Eccles (B.). In one district (Preston (R.)) school closure took place.

Diphtheria and Croup.—The number of cases of diphtheria notified in 1919 amounted to 1,789, and deaths registered numbered 222, an increase as compared with the previous year of 197 cases, but a decrease of 22 deaths. The percentage of deaths to cases was 12·4, against 15·3 in the year 1918.

The County death-rate in 1919—0·13 per 1,000 of the population—coincided exactly with the average of the preceding ten years and with the 1919 rate for the whole of England and Wales.

Of the deaths 47·2 per cent. were amongst children under the age of five years.

The prevalence of diphtheria was most marked in Leigh (B.) 101 cases (10 deaths), Atherton 82 (8 deaths), Prestwich 76 (8 deaths), Waterloo-with-Seaforth 71 (8 deaths), Ormskirk 69 (4 deaths), Ashton-in-Makerfield 63 (3 deaths), Fleetwood 57 (5 deaths), Haslingden (B.) 55 (5 deaths), Chorley (B.) 53 (12 deaths), and West Lancashire (R.) 50 (4 deaths).

Of the total cases notified 904, or 50·5 per cent., were removed to hospital, with a case mortality of 8·73 per cent.; 885 cases were treated at home, case mortality 16·15 per cent.

School closure was resorted to in five districts. From 68 districts 1,464 swabs were sent for examination.

Enteric Fever.—The following table shows the incidence of enteric fever in the Administrative County from the year 1898 to 1919. As regards the year under review, it will be noted both the cases and the deaths are well below any preceding year :—

Cases.				Deaths.					Cases.					Deaths.
1898	...	2661	...	478	1909	...	994	...	192	1910	...	1016	...	193
1899	...	2674	...	457	1911	...	1091	...	220	1912	...	620	...	147
1900	...	2183	...	399	1913	...	875	...	180	1914	...	650	...	123
1901	...	2094	...	364	1915	...	530	...	127	1916	...	387	...	94
1902	...	1747	...	297	1917	...	302	...	74	1918	...	319	...	91
1903	...	1479	...	277	1919	...	152	...	35					
1904	...	1235	...	233										
1905	...	1335	...	255										
1906	...	1248	...	252										
1907	...	859	...	164										
1908	...	1219	...	224										

The attack-rate per 1,000 of the estimated population, which in 1898 was 1·41, was only 0·09 in the year under report. The case mortality in 1919 corresponded to 23·0 per cent.

The County death-rate from enteric fever was 0·02 per 1,000, compared with an average of 0·07 for the ten years 1909-1918. The rate for the whole of England and Wales in 1919 was 0·01.

Of the total persons attacked, 49·3 per cent. were isolated in hospital. The hospital case mortality was 17·33 per cent., against home mortality 28·57 per cent.

In 55 districts no cases were reported.

Blood specimens submitted for examination numbered 157 from 45 districts.

Under Article XV. of the Public Health (Pneumonia, Malaria, Dysentery, &c.) Regulations, 1919, power is given to a Medical Officer of Health to deal with any person who is a carrier of enteric fever infection.

Diarrhœa and Enteritis.—Diseases classified under this heading gave rise to 460 deaths *at all ages*, as compared with 559 deaths in 1918 and 578 in 1917.

The Registrar-General in his statistics now includes under this heading *only deaths of children under two years of age*. The number of such deaths in the County in 1919 was 276, or 22 fewer than in the previous 12 months.

The County diarrhœa and enteritis death-rate, if calculated on the *total deaths at all ages* from these diseases corresponded to 0·27 per 1,000 of the estimated civil population (urban districts 0·28, rural districts 0·23) as compared with a rate of 0·36 in the year 1918. If only deaths *amongst children under two years of age* are taken into consideration, the County death-rate was 0·16 per 1,000 (urban districts 0·17, rural districts 0·12), as compared with 0·19 in 1918, 0·18 in 1917, and 0·27 in 1916.

Of the total diarrhœa deaths (460), 233, or 50·6 per cent., were amongst children under one year of age, 73, or 15·8 per cent., children between one and five years, and 154, or 33·4 per cent., persons over five years of age.

The County diarrhœa and enteritis deaths amongst children under two years of age amounted to 9·58 per 1,000 of the total births in 1919, being almost identical with the rate for the whole of England and Wales, which was 9·59.

The diarrhœa and enteritis death-rate *in children under two years of age* was greatest in Aspull 0·82, Skelmersdale 0·77, Haydock 0·62, and Leigh (B.) 0·60.

Acute Poliomyelitis.—Deaths due to acute poliomyelitis numbered 5, and 20 cases were notified under the Regulations of August, 1912. In 1918 the cases numbered 11, and deaths 9.

Cerebro-Spinal Fever.—Eighteen deaths were registered as due to cerebro-spinal fever, and 38 cases were reported under the 1912 Regulations. In 1918 there were 17 cases notified, and 15 deaths registered. Notification of this disease, and of acute poliomyelitis, is not carried out satisfactorily, as it is often found, on enquiry after a death has been reported, that the case had not been notified.

By General Order, dated 16th June, 1919, certain Regulations of 1918 were rescinded and new Regulations were substituted authorising the Council of any Administrative County or County Borough to provide or arrange for (1) the examination and treatment of any person who is either suspected to be suffering from cerebro-spinal fever, or has been in contact with a person suffering or suspected to be suffering from the disease; and (2) for the provision of serum and vaccine for the treatment of cases, or suspected cases, of the disease, together with the necessary apparatus for the use of the serum or vaccine.

Acute Encephalitis Lethargica and Acute Polio-encephalitis.—By Regulations operative from 1st January, 1919, the Regulations of 1918, which made these diseases compulsorily notifiable for a period of one year, were continued in force until the Minister of Health by Order otherwise directs.

Under the Regulations 26 cases were notified during the year 1919.

Ophthalmia Neonatorum.—Under “The Public Health (Ophthalmia Neonatorum) Regulations, 1914,” 337 cases were reported during the year under review, against 232 cases in 1918 and 246 in 1917. Further reference to this disease is made on page lxxxiv. in connection with the work carried out under the Midwives Acts.

Influenza.—In the absence of notification it is not possible to state the number of cases of influenza, but in the County area, during the year 1919, the deaths registered numbered 2,463 which, with the 4,492 deaths in 1918, make a total of close on seven thousand deaths.

The ages at death were as follow :—

	All Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and up- wards.
1918...	4492	86	123	279	501	631	1548	927	397
1919...	2463	87	54	89	128	260	784	662	399

The disease first assumed epidemic proportions in this County in July, 1918, when over 600 fatalities occurred ; in August and September the mortality was almost normal, followed by a severe outburst of the disease in the last quarter, when over 2,000 deaths were attributed to influenza. In January, 1919, fatalities fell to one hundred, but in the two months, February and March, these again rose to over 1,700. From that time the deaths rapidly diminished, and during the last six months of 1919 they averaged about a dozen per month.

The County death-rate from influenza in 1919 was 1·48 per 1,000 of the population, against a rate of 2·90 in the year 1918. The percentage of influenza deaths to total deaths from all causes was 10·52 per cent. in 1919, and 16·91 per cent. in the preceding year.

High influenza death-rates were attained in Croston 4·21, West Lancashire (R.) 3·94, Morecambe (B.) 2·99, Kearsley 2·98, Upholland 2·95, Wigan (R.) 2·89, Blackrod 2·82, Formby 2·71, Widnes (B.) 2·67, Haydock 2·47, Standish-with-Langtree 2·43, and Farnworth 2·40.

Schools were closed on account of the prevalence of influenza in 43 districts.

In February, 1919, the Local Government Board issued a Memorandum on the prevention of influenza, accompanied by a specimen leaflet of advice to the public on precautions to be taken against the disease and this was revised in December, 1919.

In this month the Ministry of Health also made arrangements for the preparation of a stock of anti-influenza vaccine, available for distribution through Medical Officers of Health to medical practitioners who may wish to use it.

The Public Health (Influenza) Regulations of 18th and 22nd November, 1918, which prescribed certain precautions to be adopted at places of entertainment, &c., were rescinded by Order, dated 6th May, 1919.

Bronchitis and Pneumonia.—The total deaths assigned to these diseases in 1919 were :—

Bronchitis 2,410 (males 1,103, females 1,307).

Pneumonia 1,940 (males 1,113, females 827).

The corresponding totals for the year 1918 were 2,181 and 2,604.

The County death-rate from bronchitis in 1919 was 1·44 per 1,000 of the population, and from pneumonia 1·16. In 1918 these rates were 1·41 and 1·69 respectively.

In the aggregate these two diseases contributed in the year under review 18·5 per cent. of the total deaths from all causes, or with influenza added, 29·1 per cent.

High death-rates from bronchitis and pneumonia were recorded in Aspull 4·81, Wigan (R.) 4·59, Rainford 4·53, Lathom and Burscough 4·33, Ince-in-Makerfield and Limehurst (R.) each 4·26, Radcliffe 4·22, Prescot 4·07, and Ashton-under-Lyne (B.) 4·0.

In January, 1919, the Local Government Board issued a Memorandum relative to the classification and bacteriology of pneumonia, the predisposing causes, prophylaxis, and general administrative measures.

THE PUBLIC HEALTH (PNEUMONIA, MALARIA, DYSENTERY, &C.) REGULATIONS, 1919.—The Regulations, dated 7th January, 1919, were made by the Local Government Board with the object of securing better control over, and means for treatment of, certain epidemic diseases which were prevalent or threatened at the time. The Regulations apply to malaria, dysentery, trench fever, acute primary pneumonia, acute influenzal pneumonia, enteric fever, relapsing fever, and typhus fever. The first five diseases mentioned were made compulsorily notifiable.

The Regulations also prescribed the duties of Medical Officers of Health in relation to these diseases and the precautions to be adopted. In July a leaflet was issued—"Suggestions for the Care of Malaria Patients."

Under the above Regulations the following notifications were received:—

Acute primary pneumonia and acute influenzal						
pneumonia	...	...	...	...	...	2,915
Malaria	...	...	...	...	...	770
Dysentery	...	...	...	...	...	190
Trench fever	...	...	...	...	...	3

Rabies.—In June, 1919, the Local Government Board issued a revised Memorandum on the procedure recommended to be followed in the event of persons being bitten by dogs suspected or ascertained to be rabid.

Tetanus.—A Memorandum on the prophylactic use of tetanus anti-toxin was issued by the Ministry of Health in October, 1919. A supply of this anti-toxin is kept available in the County Public Health Department. To December 31st, 1919, 125 phials had been issued to medical practitioners.

OTHER MEMORANDA issued in 1919 (27th February) by the Local Government Board included one on measures for the prevention of lousiness and itch.

Organic Heart Disease.—The mortality from this disease corresponded to 1·39 per 1,000 of the population, the total deaths in 1919 amounting to 2,323, or 73 more than the number registered in 1918.

Cancer, Malignant Disease.—The fatalities ascribed to cancer during 1919 numbered 1,793 (males 774, females 1,019), as compared with 1,727 in the year 1918 and 1,713 in 1917.

The County cancer death-rate for 1919 is fractionally less than that of 1918, but it is double the rate of 20 years ago.

This rate has shown a steady increase for some years, as will be seen from the table below, which compares the County rate with that for England and Wales :—

Year.	Administrative County.		England and Wales (crude rates).
	No. of Deaths.	Death-rate per 1,000.	Death-rate per 1,000.
1909	1,374	0·75	0·95
1910	1,333	0·74	0·96
1911	1,493	0·86	0·99
1912	1,466	0·83	1·01
1913	1,618	0·92	1·05
1914	1,668	0·95	1·06
1915	1,577	0·94	1·12
1916	1,728	1·06	1·16
1917	1,713	1·09	1·21
1918	1,727	1·12	1·21
Average 1909-1918	1,569	0·92	1·07
1919	1,793	1·07	*1·17

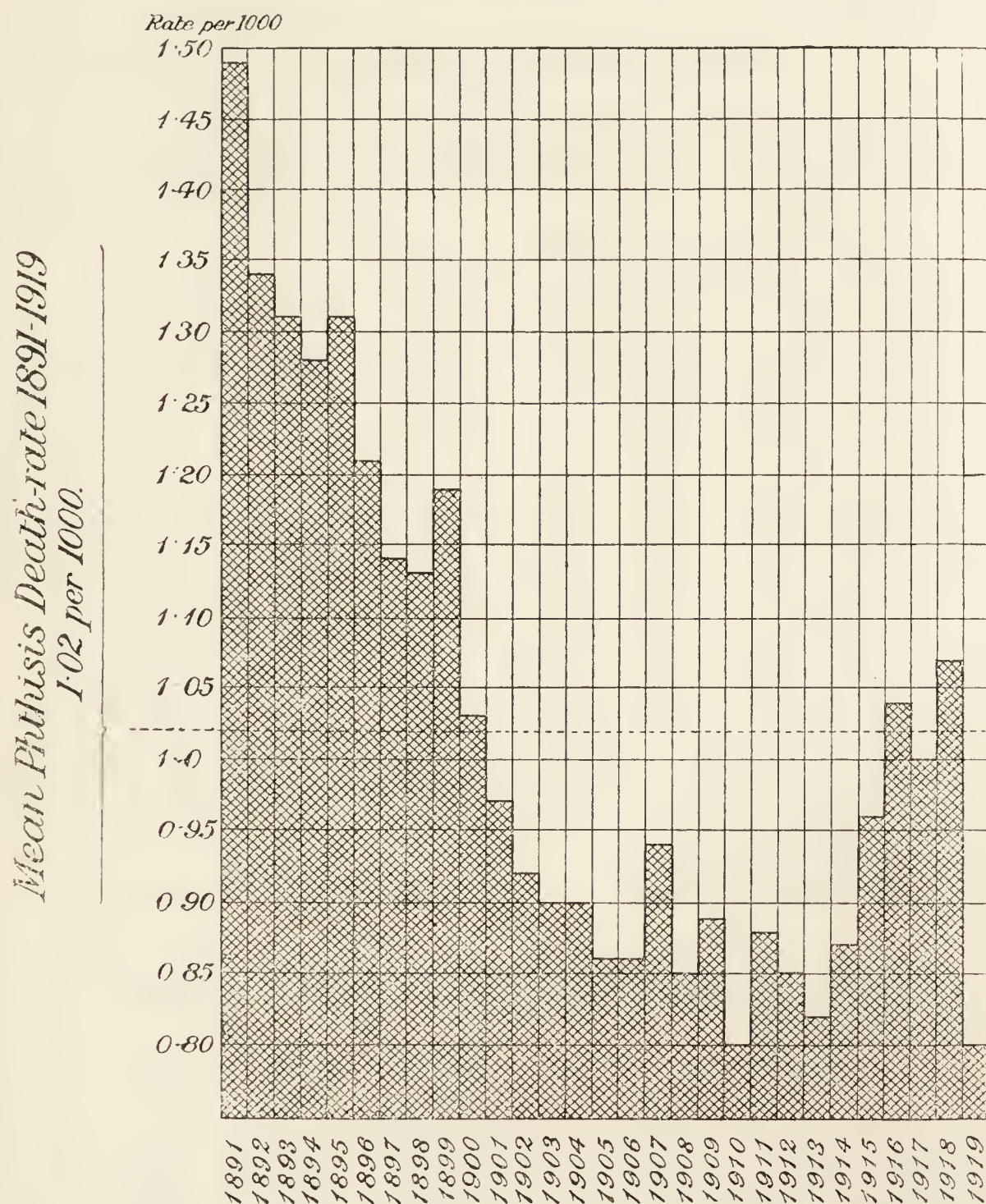
* Calculated from Quarterly Returns of Registrar-General.

Phthisis (Pulmonary Tuberculosis).—The deaths of civilians during 1919, assigned to phthisis (pulmonary tuberculosis) numbered 1,339—males 675, females 664—or 313 less than those so classified in the preceding twelve months. The proportion of phthisis deaths to deaths from all causes was 5·7 per cent. in 1919, against 6·2 and 7·2 per cent. respectively in the years 1918 and 1917.

Phthisis this year ranks sixth in the diseases responsible for the highest number of deaths from any defined cause, the five with greater mortality being influenza, bronchitis, organic heart diseases, pneumonia, and cancer.

The County phthisis death-rate in 1919 was equal to 0·80 per 1,000 of the estimated civilian population, the rate in the urban districts being 0·81 and in the rural districts 0·75. Last year the rates were—County 1·07, urban districts 1·10, rural districts 0·88. The mortality from phthisis in 1919 was below any previously recorded for the Administrative County excepting the year 1910, when it was exactly the same. In 1917 the rate was 1·0, 1·04 in 1916, 0·96 in 1915, 0·87 in 1914, and the County average of the ten years 1909-1918 was 0·91.

The Diagram below shows the County phthisis death-rate for the year under report, contrasted with the preceding 28 years, and the mean of the whole period :—



In comparing the phthisis death-rates of part of the war period, *i.e.*, 1916-1918 with other years, the fact should be noted that the estimated population on which the rate is based in these years is the "civilian" population referred to on page ix. The County rate for 1919 is also calculated on the "civilian" population, but this estimate is 125,000 in excess of the estimate for 1918.

The following table shows the rates of phthisis deaths to total deaths in the Administrative County, compared with the whole of England and Wales :—

Year.	Administrative County of Lancaster.					England and Wales.	
	Total No. of phthisis deaths	Phthisis death-rate per 1,000 of population.			Phthisis Mortality per cent. of total deaths (County).	Phthisis death-rate.	Mortality per cent. of total deaths.
		County.	Urban.	Rural.			
1909	1,638	0.89	0.90	0.79	6.4	1.08	7.5
1910	1,441	0.80	0.82	0.66	6.3	1.01	7.5
1911	1,528	0.88	0.91	0.66	5.8	1.08	7.4
1912	1,495	0.85	0.88	0.67	6.2	1.03	7.8
1913	1,441	0.82	0.84	0.71	5.7	1.00	7.3
1914	1,523	0.87	0.89	0.69	6.2	1.04	7.5
1915	1,614	0.96	1.01	0.70	6.3	1.16	7.4
1916	1,685	1.04	1.07	0.81	7.2	1.17	8.2
1917	1,584	1.00	1.03	0.84	7.2	1.25	8.7
1918	1,652	1.07	1.10	0.88	6.2	1.34	7.6
10 years average	1,560	0.91	0.94	0.74	6.3	1.11	7.6
1919	1,339	0.80	0.81	0.75	5.7	*1.01	*7.2

In 1911, Acute Miliary Tuberculosis was added to "phthisis" in the International Code.

*Calculated from Quarterly Returns of Registrar-General.

In the year 1919 the highest district death-rates from phthisis were recorded in Longridge 1.73 per 1,000 of the population, Blackrod and Haydock each 1.54, Wardle 1.51, Litherland and Prestwich each 1.36, Ormskirk 1.35, Whiston (R.) 1.26, Failsworth 1.25, Widnes (B.) 1.22, and Droylsden 1.21. Rates for one year, especially in districts with comparatively small populations, are apt to be misleading; in the following County districts the phthisis death-rates, extending over a period of *ten years*, are well above the average :—Ashton-under-Lyne (B.) and Kirkham each 1.42,

Ormskirk 1·40, Whitworth 1·37, Heywood (B.) 1·27, Dalton-in-Furness and Grange-over-Sands each 1·26, Lancaster (B.) 1·25, Failsworth 1·24, Hurst 1·22, and Leigh (B.) 1·20.

The phthisis death-rate for each urban and rural district is shown on Table B, inserted opposite page xvi.

The following table shows the male and female deaths from pulmonary tuberculosis at various age periods during the last four years :—

	At all Ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upw'ds.
Males—									
1916 ...	900 ...	2 ...	6 ...	11 ...	28 ...	133 ...	392 ...	300 ...	28
1917 ...	827 ...	5 ...	7 ...	6 ...	21 ...	125 ...	380 ...	252 ...	31
1918 ...	844 ...	2 ...	7 ...	8 ...	31 ...	136 ...	370 ...	253 ...	37
1919 ...	675 ...	4 ...	4 ...	8 ...	20 ...	98 ...	286 ...	225 ...	30
Females—									
1916 ...	785 ...	3 ...	9 ...	11 ...	68 ...	180 ...	370 ...	129 ...	15
1917 ...	757 ...	4 ...	4 ...	11 ...	63 ...	196 ...	333 ...	133 ...	13
1918 ...	808 ...	2 ...	1 ...	4 ...	55 ...	215 ...	373 ...	139 ...	19
1919 ...	664 ...	2 ...	4 ...	8 ...	45 ...	167 ...	293 ...	118 ...	27

The table below gives the total deaths from phthisis in the County during 1911-1919, distinguishing the male and female deaths, and showing the increase in the war period over the number of deaths occurring in the year 1913 :—

Year.	Deaths from phthisis.			Increase or decrease on 1913 totals.		
	Males.	Females.	Total.	Males.	Females.	Both Sexes.
1911	*875	*758	*1633	...	...	...
1912	*897	*702	*1599	...	...	...
1913	*813	*694	*1507	...	...	...
1914	*862	*730	*1592	+49	+36	+85
1915	*896	*795	*1691	+83	+101	+184
1916	900	785	1685	+87	+91	+178
1917	827	757	1584	+14	+63	+77
1918	844	808	1652	+31	+114	+145
1919	675	664	1339	—138	—30	—168

* Totals taken from Registrar-General's Reports differ slightly from totals in County Health Reports.

Other Tuberculous Diseases.—Tuberculous meningitis was responsible for 101 deaths, and “ other tuberculous diseases ” 257 deaths, making—with the 1,339 phthisis deaths—the aggregate fatalities assigned to tuberculous affections 1,697, as compared with 2,087 in the year 1918, a decrease of 390.

The combined tuberculosis death-rate in 1919 was 1·02, against a rate of 1·35 in the previous year, 1·30 in 1917, and 1·33 in 1916.

The table below shows the deaths in 1919 from tuberculous diseases, compared with the years 1918 and 1917 :—

Cause of Death.	All ages.	Under 1 year.	1 and under 2 years.	2 and under 5 years.	5 and under 15 years.	15 and under 25 years.	25 and under 45 years.	45 and under 65 years.	65 and upwards
Phthisis (Pulmonary Tuberculosis)	1339	6	8	16	65	265	579	343	57
Tuberculous Meningitis	101	13	13	32	31	8	4	..	..
Other Tuberculous Diseases..	257	15	15	34	56	50	46	31	10
Total 1919..	1697	34	36	82	152	323	629	374	67
Year 1918 ..	2087	40	55	80	188	419	816	427	62
Year 1917 ..	2050	54	54	96	193	384	783	432	54

THE PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.—Tables C and D, here inserted, analyse, both as regards parts of the body affected and in age periods, the notifications received weekly during the fifty-three weeks ended 3rd January, 1920, from local Medical Officers of Health.

The total number of cases reported under the Regulations, excluding 198 duplicates, 606 notifications on Form C (admissions to institutions), and 586 on Form D (discharges from institutions), numbered 2,952, or 467 less than in the year 1918, although the “ year ” shown on the tables includes 53 weeks, against 52 weeks in the 1918 tables. Pulmonary tuberculosis contributed 2,105 cases (429 less than in 1918), and other forms of tuberculosis 847 cases, 38 less than in the preceding year.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

(Extracted from Weekly Returns of District Medical Officers of Health.)

	NOTIFICATIONS ON FORMS A AND B—Excluding Duplicates.																							NOTIFICATIONS. FORM B ONLY. (By School Medical Inspectors.)								Number of Cases Notified on Form C. (Admissions.)		Number of Cases notified on Form D (Dis- charges from Institu- tions).							
	PULMONARY.													NON-PULMONARY.										Total Pul- monary and Non- Pul- monary.	PRIMARY NOTIFICATIONS. (i.e., excluding duplicates.)				Total Notifica- tions (i.e., including cases previously notified by other Doctors.)	Poor Law Insti- tutions.	Sana- toria.										
	Years. {	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up- wds	TOTAL.	TOTAL M. & F.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.		55 to 65.	65 and up- wds	TOTAL.	TOTAL M. and F.				Under 5 years.	5 to 10.		10 to 15.	TOTAL.					
Thirteen weeks ended 29th March, 1919	M. F.	.. 2	7 5	12 16	14 21	24 33	29 40	52 73	61 57	42 27	18 8	7 7	266 289	555	4 6	12 9	25 20	12 17	15 14	2 9	7 8	3 5	3 2	4 2	1 1	88 93	181	736	1 1	2 2	1 1	.. 1	2 2	2 3	9	9	2	132	119
Thirteen weeks ended 28th June, 1919	M. F.	1 1	8 2	12 18	20 19	35 42	26 42	84 71	58 56	56 26	30 16	4 9	334 302	636	5 2	13 24	30 31	25 26	23 21	7 9	7 13	8 14	6 6	3 4	.. 1	127 151	278	914	3 3	2 1	.. 1	3 2	3 4	5 3	15	18	2	145	136
Thirteen weeks ended 27th September, 1919	M. F.	1 1	3 2	11 6	9 22	17 22	22 36	43 61	38 37	31 17	19 9	2 3	196 216	412	1 1	15 14	20 21	20 10	8 12	9 15	8 3	3 3	6 1	2 ..	3 3	95 83	178	590	2 1	2 2	1 1	.. 2	3 2	2 2	9	10	1	154	160
Fourteen weeks ended 3rd January, 1920..	M. F.	.. 1	4 5	18 14	12 18	18 29	30 43	59 56	55 34	36 29	24 8	4 5	260 242	502	3 1	10 12	22 26	23 23	7 14	8 10	9 17	8 7	4 2	3 1	97 113	210	712	1 1	.. 4	.. 2	2 1	1 6	2 6	10	11	..	170	171
Total ..	M. F.	2 5	22 14	53 54	55 80	94 126	107 161	238 261	212 184	165 99	91 41	17 24	1056 1049	2105	13 10	50 59	97 98	80 76	53 61	26 43	31 41	22 29	19 11	12 7	4 5	407 440	847	2952	7 6	6 9	2 3	5 5	9 9	11 14	43	48	5	601	586

TABLE D.

ADMINISTRATIVE COUNTY OF LANCASTER.

PUBLIC HEALTH (TUBERCULOSIS) REGULATIONS, 1912.

ANALYSIS OF THE NOTIFICATIONS ON FORMS A AND B (EXCLUDING DUPLICATES) RECEIVED DURING THE FIFTY-THREE WEEKS
ENDED 3RD JANUARY, 1920.

(Extracted from Weekly Returns of District Medical Officers of Health.)

AGE—YEARS :—		..	0 — 1			1 — 5			5 — 10			10 — 15			15 — 20			20 — 25			25 — 35			35 — 45			45 — 55			55 — 65			65 & upwds.			TOTALS.			
SEX.	Col.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	M.	F.	Both Sexes.	Col.	
PULMONARY—																																							
Lungs only ..	1	2	5	7	22	14	36	53	54	107	55	79	134	94	126	220	107	159	266	235	259	494	210	180	390	163	97	260	89	40	129	17	24	41	1047	1037	2084	1	
Lungs and Larynx ..	2	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	2	2	1	..	1	..	4	4	1	1	2	1	1	2	..	..	..	3	8	11	2
Laryngitis ..	3	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	2	2	4	2	..	2	2	1	1	2	1	..	1	..	..	6	4	10	3
PULMONARY TOTAL ..	4	2	5	7	22	14	36	53	54	107	55	80	135	94	126	220	107	161	268	238	261	499	212	184	396	165	99	264	91	41	132	17	24	41	1056	1049	2105	4	
Cases—Pulmonary and Non-Pulmonary combined ..		1	1	2	2	2	4	2	1	3	5	3	8	3	2	5	1	2	3	3	5	8	5	5	10	2	3	5	..	1	1	..	1	1	24	26	50		
NON-PULMONARY—																																							
ALIMEN- TARY	Enteritis (Primary) ..	5	..	..	..	2	2	4	2	2	4	..	1	1	2	..	1	1	..	..	..	..	1	1	..	..	..	..	..	..	1	1	2	7	8	15	5
	Peritonitis (Abdominal Tuberculosis) ..	6	5	..	5	10	10	20	7	4	11	12	6	18	5	8	13	..	6	6	1	2	3	3	..	3	2	1	3	2	..	2	1	..	1	48	37	85	6
GLANDS	Tabes (Mesenteric Glands) ..	7	3	1	4	3	4	7	1	..	1	1	1	2	1	..	1	1	1	9	7	16	7	
	Axillary ..	8	..	..	..	1	..	1	..	2	2	2	..	2	1	1	2	1	1	2	..	..	..	..	..	1	..	1	..	..	..	..	..	6	4	10	8
	Cervical ..	9	3	1	4	15	10	25	42	45	87	41	37	78	27	29	56	13	14	27	14	21	35	3	13	16	1	2	3	3	1	4	102	173	335	9	
	Inguinal ..	10	1	..	1	1	2	..	2	10	
	Mediastinal ..	11	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	11
	Not Classified (Two or more Groups) ..	12	2	3	5	3	4	7	1	2	3	1	1	2	7	10	17	12	
GENITO- URINARY	Bladder ..	13	..	..	..	..	..	..	..	..	..	..	..	1	1	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	3	13	
	Fallopian Tube ..	14	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3	14
	Kidney ..	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	1	15
	Prostate ..	16	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	1	..	1	16
	Suprarenal ..	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	17
	Testicle and Epididymis. Not Classified (Two or more) ..	18 19	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	1 1	.. 1	.. ..	.. ..	.. ..	1 ..	1 ..	.. ..	.. ..	.. ..	4 ..	4 ..	1 ..	1 ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	6 1	.. ..	6 1	18 19
JOINTS AND BONES	Head (Including Middle Ear) ..	20	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	20	
	Trunk—																																						
	Ribs and Sternum ..	21	..	..	..	1	..	1	..	1	1	3	..	3	..	1	1	2	..	2	..	..	..	..	..	..	..	..	..	1	..	1	7	2	9	21	
	Spine ..	22	4	4	8	5	7	12	2	5	7	3	3	6	2	8	10	2	4	6	2	3	5	3	..	3	..	1	1	23	35	58	22	
	Arm—																																						
	Shoulder ..	23	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	1	1	2	..	..	..	..	..	..	..	..	..	..	2	1	3	23	
	Scapula ..	24	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24
	Humerus ..	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	25
	Elbow ..	26	..	..	..	1	..	1	2	1	3	2	1	3	1	1	2	..	1	1	..	1	1	..	..	1	1	..	1	..	1	..	1	7	6	13	26
	Radius ..	27	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	27
	Ulna ..	28	1	1	1	1	1	28	
	Hand and Wrist ..	29	..	..	..	1	3	4	2	1	3	..	..	..	1	..	1	..	..	..	1	1	2	1	..	1	1	..	1	..	..	..	..	7	5	12	29
	Leg—																																						
	Hip and Pelvis ..	30	1	1	9	2	11	2	6	8	4	6	10	..	3	3	1	4	5	3	2	5	4	..	4	2	..	2	25	24	49	30	
	Femur ..	31	2	..	2	2	6	8	2	4	6	..	3	3	..	1	1	2	1	3	1	1	2	..	2	2	..	1	1	9	19	28	31	
	Knee ..	32	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	3	32>

Since 1st February, 1913, tuberculosis, both “pulmonary” and “other forms” has been compulsorily notifiable; previous to that date it was only partially notifiable.

The table below differentiates the male and female cases at certain specified age groups:—

Years.	0 to 1.	1 to 5.	5 to 10.	10 to 15.	15 to 20.	20 to 25.	25 to 35.	35 to 45.	45 to 55.	55 to 65.	65 and up.	Total.	Total, M. & F.
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Pulmonary tuberculosis—

1913.. M.	1	24	97	70	129	131	311	292	228	114	29	1426	} 2700
(11 m'nths) F.	6	28	100	104	158	188	296	201	103	65	25	1274	
1914.. M.	6	40	80	83	112	172	329	315	240	107	23	1507	} 2820
F.	3	32	115	107	140	181	336	225	107	47	20	1313	
1915.. M.	5	47	97	79	127	138	305	303	235	117	34	1487	} 2872
F.	5	27	96	111	152	191	383	239	100	60	21	1355	
1916.. M.	1	31	71	77	121	157	331	296	190	96	36	1407	} 2689
F.	2	24	81	96	165	186	345	220	98	52	13	1282	
1917.. M.	4	20	77	62	113	104	262	268	190	90	30	1220	} 2375
F.	2	22	90	100	129	155	296	185	107	50	19	1155	
1918.. M.	3	35	55	59	140	108	300	317	232	98	28	1375	} 2534
F.	1	24	69	74	139	166	297	207	117	52	13	1159	
1919.. M.	2	22	53	55	94	107	238	212	165	91	17	1056	} 2105
F.	5	14	54	80	126	161	261	184	99	41	24	1049	

Non-pulmonary tuberculosis—

1913.. M.	29	128	177	137	98	58	71	48	27	18	3	794	} 1592
(11 m'nths) F.	28	118	134	132	118	86	80	47	29	19	7	798	
1914.. M.	43	111	131	95	77	36	47	23	20	14	3	600	} 1140
F.	37	88	98	89	77	44	58	27	12	6	4	540	
1915.. M.	39	109	113	93	61	46	50	29	14	5	3	562	} 1128
F.	26	88	107	88	84	53	61	33	15	7	4	566	
1916.. M.	20	127	135	99	65	42	47	34	12	13	5	599	} 1180
F.	8	68	122	114	85	46	65	41	19	11	2	581	
1917.. M.	21	116	109	105	61	23	42	30	8	9	1	525	} 1062
F.	7	79	97	98	89	59	49	25	23	6	5	537	
1918.. M.	14	75	103	65	60	19	29	16	14	7	2	404	} 885
F.	10	75	84	92	80	46	46	29	9	6	4	481	
1919.. M.	13	50	97	80	53	26	31	22	19	12	4	407	} 847
F.	10	59	98	76	61	43	41	29	11	7	5	440	

For reference, and for the information of the County Tuberculosis Department, a card index of every case notified is kept up-to-date in the County Public Health Department.

The administration of "Sanatorium Benefit" under the Insurance Act and the treatment of tuberculosis in general, is undertaken in this County by the County Tuberculosis Committee. The County Public Health Department supplies to the Tuberculosis Department copies of all notifications of cases of tuberculosis received weekly from district Medical Officers of Health.

The Public Health (Venereal Diseases) Regulations, 1916.
—Under these Regulations the County Public Health Department has prepared and put into operation a scheme for the diagnosis and treatment of venereal diseases.

The scheme provides facilities for—

(1) enabling any medical practitioner practising in the area of the County Council to obtain, at the cost of the County Council, a scientific report on any material which the medical practitioner may submit from a patient suspected to be suffering from venereal disease.

(2) the treatment at and in hospitals or other institutions of persons suffering from venereal disease, and

(3) supplying medical practitioners with salvarsan, or its approved substitutes, for the treatment and prevention of venereal diseases.

The facilities mentioned, both for diagnosis and treatment, are available to registered medical practitioners without charge to them or to their patients.

(1) PROVISION OF LABORATORY FACILITIES FOR DIAGNOSIS
AND GUIDANCE IN TREATMENT.

Arrangements have been made by which any medical practitioner practising in the area of the County Council will be supplied gratuitously with the necessary outfit for collecting material for examination from persons suspected to be suffering from venereal disease, and a scientific report upon the material submitted will be furnished.

The Laboratories available for such examinations are :—

LIVERPOOL ... The University of Liverpool, City Laboratories, and School of Hygiene, Mount Pleasant (Prof. Beattie).

MANCHESTER ... The University of Manchester, Pathological Department, Oxford Road (Prof. Dean).

BURNLEY ... The Borough Health Department Laboratory (Dr. R. J. M. Horne).

Nature of Examination.

(a) Microscopic examination of discharges for detection of gonococci, confirmed in exceptional cases by cultural methods.

(b) Microscopic examination of discharge from sores, mucous patches, condylomata, &c., for the detection of spirochetes or of other organisms.

*(c) Wassermann tests on the blood serum of patients—

(i.) for the diagnosis of syphilis.

(ii.) as a control of the effect of treatment.

(d) Examination of foetal tissues for the presence of spirochetes.

(e) More rarely Wassermann tests and microscopic examination of the cerebro-spinal fluid of patients.

(f) Other tests directly concerned with the diagnosis or treatment of venereal diseases.

Outfits for forwarding specimens to the laboratories are supplied gratuitously on application to the Public Health Department, County Offices, Preston.

* Specimens of blood for Wassermann tests should be forwarded as early in the week as possible, to arrive at the Laboratory *not later* than first post on Friday morning, in order that the specimens will not have to be kept over the week-end before the examination is completed.

(2) TREATMENT CENTRES OR CLINICS.

Arrangements for Treatment.

The County Council has made arrangements with the undermentioned Institutions for the treatment of patients residing in the County Council's area (revised August, 1920):—

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Ashton-under-Lyne District Infirmary, Darnton Road	Wednesday, 3—4 p.m. Thursday, 6—8 p.m. Friday, 3—4 p.m.	
Barrow-in-Furness, North Lonsdale Hospital, School Street	Wednesday, 10 a.m.	Wednesday, 8 p.m.
	Thursday, 8 p.m.	Friday, 10 a.m.
	Saturday, 10 a.m.	
	<i>Irrigation :—</i>	
	Daily, 10 a.m., 12 noon, and 6—7 p.m.	Daily, 10 a.m.
	<i>N.B.</i> —Apprehensive cases present themselves at the Clinics.	
Blackburn and East Lancashire Royal Infirmary	Monday, 5—7 p.m.	Tuesday, 4 p.m.
	Wednesday, 3-30 p.m.	Wednesday, 5—7 p.m.
	<i>N.B.</i> —New patients should present themselves 15 minutes before above hours.	
Blackpool Victoria Hospital, Whitegate Drive	Monday, Wednesday, Thursday, and Saturday, 11 a.m.—12-30 p.m.	Tuesday and Friday, 11 a.m.—12-30 p.m.
Bolton Public Health Department Clinic, Howell Croft, North	Monday, 7 p.m. Tuesday, 7 p.m. Wednesday, 11 a.m. and 7 p.m.	Thursday, 7 p.m. Saturday, 10 a.m.
Bootle Borough Hospital, Derby Road	Monday, 5-30 p.m. Thursday, 12 noon Friday, 5-30 p.m.	Monday, 12 noon Friday, 5 p.m.
Burnley Victoria Hospital	Monday, 10—11 a.m., 5-30—7 p.m.	Friday, 11 a.m.—12 noon; 6—7 p.m.
Bury Dispensary, The Wylde	Friday, 6-30—8-30 p.m.	Tuesday, 6-30—8-30 p.m.

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Liverpool Royal Infirmary, Pembroke Place	New Patients :— Monday, 12 noon Wednesday, 5 p.m. Friday, 12 noon	
	Continuation Treatment :— Daily, 5—6 p.m. (except Saturday, Sunday and Monday)	Thursday, 12 noon Daily, 2—4 p.m. (except Saturday, Sunday and Monday)
Liverpool David Lewis Northern Hospital (entrance in Leeds Street)	New Patients :— Monday and Friday, 5—6 p.m.	
	Continuation Treatment :— Tuesday, Wednesday, Thursday, and Saturday, 6—8 p.m.	Wednesday, 5—6 p.m.
Liverpool Royal Southern Hospital, Caryl Street	New Patients :— Tuesday, 5 p.m. Friday, 1-30 p.m. Saturday, 1 p.m.	
	Continuation Treatment :— Daily, 5 p.m. (except Sunday) Saturday, 1 p.m.	Thursday, 5 p.m. Daily, 5 p.m. (except Sunday) Saturday, 1 p.m.
Liverpool Stanley Hospital, Stanley Road, Kirkdale	New Patients :— Monday and Thursday, 5—6 p.m.	
	Continuation Treatment :— Daily, 6—7 p.m. (except Tuesday, Saturday, and Sunday)	Tuesday, 5—6 p.m. Saturday, 12 noon Daily, 11 a.m. (except Sunday)
Liverpool Cancer and Skin Hospital, Myrtle Street	New Patients :— Daily, 1—2 p.m.	
	Continuation Treatment :— Daily, 9—10 a.m., 1—2 p.m., and 6—7 p.m. Sundays, 11 a.m.—12 noon	

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Manchester Royal Infirmary, Oxford Road	<p>Diseases of Skin :— Wednesday, 6—8 p.m.</p> <p>Diseases of Genito-Urinary Organs :— Thursday, 6—8 p.m.</p> <p>Diseases of Skin and Genito-Urinary Organs :— Friday, 4-15—6-15 p.m.</p>	<p>Thursday, 11 a.m. to 1 p.m.</p> <p>Wednesday, 11 a.m.—1 p.m.</p> <p>Thursday, 9—11 a.m.</p>
Manchester and Salford Lock Hospital, Duke Street, Liverpool Road	<p>Monday, 5—7 p.m.</p> <p>Tuesday, 5—7 p.m.</p> <p>Thursday, 5—7 p.m.</p> <p>Friday, 5—7 p.m.</p>	<p>Wednesday, 5—7 p.m.</p>
Manchester and Salford Hos- pital for Skin Diseases, Quay Street, Deansgate (Syphilis only treated at this Hospital)	<p>Daily (Sunday excepted) 9—10 a.m.</p> <p>Children, 9—11 a.m.</p>	<p>9—11 a.m.</p>
Manchester, St. Mary's Hospitals (Whitworth Street West Branch), Oxford Street		<p>Daily (Saturday & Sunday excepted) 9—10-30 a.m.</p> <p>Wednesday, 5—7 p.m.</p>
Manchester, Ancoats Hospi- tal, Mill St., Ancoats	<p>Wednesday, 5-30— 7 p.m.</p> <p>Saturday, 5—7 p.m.</p>	<p>Wednesday, 11-30 a.m.—1 p.m.</p>
Oldham Royal Infirmary, Union Street West	<p>Tuesday, 8-30 p.m.</p>	<p>New Patients :— Tuesday, Wednesday, Thursday, and Friday, 3 p.m.</p>
	<p>Continuation Treatment :— Tuesday, 8-30 p.m. Wednesday and Friday, 2-30 p.m.</p>	<p>Tuesday and Thursday, 2-30 p.m.</p>
Preston Royal Infirmary, Deepdale Road	<p>Wednesday, 4-30— 7 p.m.</p> <p>Friday, 4-30—7 p.m.</p>	<p>Tuesday, 4-30—7 p.m.</p>

Treatment Centre.	Days and Hours of Out-Patient Clinic.	
	MALES.	FEMALES.
Rochdale Infirmary, Red-cross Street	Tuesday, 10 a.m. Friday, 5-30 p.m.	Friday, 4-30 p.m.
Salford Royal Hospital, Chapel Street. Out-patient Clinic—1, Adelphi Place, back of Hospital	Skin Department :— Monday, 12 noon Thursday, 6 p.m. Genito-Urinary Tuesday, 12 noon Friday, 6 p.m.	Monday, 12 noon Wednesday, 6 p.m. Department :— Tuesday, 12 noon Friday, 6 p.m.
Southport Infirmary, Scarisbrick New Road	Daily (except Sunday), 8-30 a.m. Monday to Friday, 6 p.m. Saturday, 2-30 p.m.	Daily (except Saturday and Sunday), 2 p.m.
St. Helens Corporation Hospital. Out-patient Clinic—18, Cloughton Street	Monday, 6—7 p.m.	Wednesday, 7—8 p.m. (and Children)
	Disinfection and Irrigation :— Daily, 9-30 a.m. to 5-30 p.m.	
Warrington Infirmary and Dispensary, Kendrick St. Out-patient Clinic—Beaumont Street entrance	Tuesday, 3-30 p.m. Saturday, 5 p.m.	Tuesday, 5 p.m. Saturday, 3-30 p.m.
Wigan Royal Albert Edward Infirmary, Wigan Lane	Tuesday, 4 p.m. Friday, 10 a.m.	Tuesday, 5 p.m. Friday, 10 a.m.

Each Institution is available for the *free* treatment of all comers, without distinction as to means, or as to place of residence.

Every patient attending for diagnosis or treatment can be assured that, although his home address will be kept confidentially for reference, it will never be communicated to others. It is necessary for the Medical Officer of the Institution to have the home address, in order to arrange subsequent appointments.

Patients attending for the treatment of venereal diseases will not be distinguished in any way from patients attending for treatment of other diseases. A nurse will always assist at the clinic for women.

Patients requiring Institutional treatment, *e.g.*, injections of salvarsan or its approved substitutes, &c., will, if necessary, be admitted as in-patients.

A medical practitioner will, by appointment, be able to consult with the Medical Officer of a particular clinic respecting any case of suspected venereal disease under his care.

The Medical Officer of the clinic will, in cases where such action is desired, furnish the patient's own medical adviser with a report on the patient's treatment at the clinic, with suggestions as to continued treatment.

Further facilities for medical practitioners will be offered, when circumstances permit, such as :—

- (a) demonstrations and post-graduate courses at the Treatment Centres,
- (b) consultations with the Pathologist or the Medical Officer of the Treatment Centre, and
- (c) assistance in the taking of difficult specimens.

(3) SUPPLY OF SALVARSAN OR ITS APPROVED SUBSTITUTES.

The County Council supplies to medical practitioners, approved under the Regulations for such purpose, salvarsan or its approved substitutes free of cost.

The following drugs have been approved :—

Kharsivan	Galyl
Arsenobillon	Neokharsivan
Novarsenobillon	Salvarsan
Diarsenol	Neodiarsenol

A medical practitioner desirous of having his name placed on the County list for the gratuitous supply of salvarsan or its approved substitutes may apply to the County Medical Officer of Health for a form on which to give the necessary particulars of his training or experience in the administration of these drugs.

PRINTED FORMS OF INSTRUCTIONS TO MEDICAL PRACTITIONERS, PATIENTS, AND THE PUBLIC GENERALLY.

A supply of the undermentioned forms and leaflets is available, and copies will be sent on application to the

County Public Health Department, County Offices,
Preston :—

- (a) Application by medical practitioner for pathological outfit (Form V. I).
- (b) Application by medical practitioner for supply of approved substitutes for salvarsan (Form V. 2).
- (c) Warning to patient as to care after administration of salvarsan substitute (Form V. 3).
- (d) Particulars to be supplied by the medical practitioner with each specimen sent to the laboratory (Form V. 4).
- (e) Report of pathologist respecting specimen sent by medical practitioner (Form V. 5).
- (f) Instructions to patients suffering from syphilis (Form V. 6).
- (g) Instructions to patients suffering from gonorrhœa (Form V. 7).
- (h) Information to the public on the dangers of venereal diseases and on the facilities for treatment (Form V. 8).
- (i) Leaflet to seamen (Forms V. 14 and 15).

Any further information relative to the scheme can also be had on application to the County Medical Officer of Health.

TREATMENT CENTRES.—

Work carried out during the year ended 31st December, 1919.

The information obtained from the Institutions with which the County Council has arrangements regarding persons residing in the County area attending for treatment during the year ended 31st December, 1919, is tabulated in the following table :—

Institution	Number of County Residents attending for the first time and found to be suffering from :—				Total Number of Attendances of County Residents at Out-patient Clinic.	Aggregate Number of In-patient days.	Number of Doses of Salvarsan substitutes.
	Syphilis.	Soft Chancre	Gonorrhœa	Conditions other than Venereal.			
Ashton-under-Lyne District Infirmary	90	1	12	13	1156	62	642
Barrow-in-Furness North Lonsdale Hospital	12	..	4	6	124	24	82
Blackburn and East Lancashire Royal Infirmary	158	19	45	45	1950	326	722
Blackpool Victoria Hospital	33	3	26	9	544	102	237
*Bolton Infirmary	36	..	..	21	411	90	225
Bolton Public Health Department Clinic	132	..	97	40	1982	7	800
Bootle Borough Hospital	37	6	40	5	668	2	177
Burnley Victoria Hospital	108	26	50	21	1567	87	668
Bury Tuberculosis Dispensary Clinic	..	..	Established January, 1920.	..	..	..	..
Liverpool Royal Infirmary	65	..	69	23	1233	16	255
Liverpool David Lewis Northern Hospital	6	..	3	1	50	..	23
Liverpool Royal Southern Hospital	6	..	1	..	35	..	19
Liverpool Stanley Hospital	3	..	1	..	38	..	13
Liverpool Skin and Cancer Hospital	31	..	10	..	322	126	130
Manchester Ancoats Hospital	47	..	37	12	618	16	262
Manchester Royal Infirmary	155	6	61	8	2120	..	570
Manchester and Salford Lock Hospital	41	10	37	27	806	1273	363
Manchester and Salford Hospital for Skin Diseases	..	..	..	..	..	..	..
Manchester St. Mary's Hospitals	127	2	14	29	3214	36	538
Oldham Royal Infirmary	2	..	2	4	20	..	6
Preston Royal Infirmary	73	2	35	11	886	133	266
Rochdale Infirmary	65	8	14	35	889	..	980
Salford Royal Hospital	88	4	29	..	847	159	717
St. Helens Corporation Hospital	67	..	79	71	2014	186	390
Warrington Infirmary	15	2	8	..	181	84	105
Wigan Royal Albert Edward Infirmary	18	..	13	11	148	31	48
..	95	5	42	16	909	78	560
Total	1510	94	729	408	22732	2838	8798

* Treatment Centre discontinued 31st August, 1919.

PATHOLOGICAL EXAMINATIONS.

Outfits to the number of 766 have been supplied to medical practitioners for the purpose of sending specimens for pathological examination.

	No. of outfits issued to medical practitioners.		
	Wassermann test.	Detection of <i>Spirochæta pallida</i> .	Detection of Gonococci.
Year ended 31st December, 1919.	405	43	62
Total from commencement of County Scheme to 31st Dec., 1919	600	53	113

SUPPLY OF SALVARSAN OR ITS SUBSTITUTES.

The following statement shows the number of doses of salvarsan or its approved substitutes supplied to medical practitioners :—

		Salvarsan or its approved Substitutes supplied to medical practitioners.								
		No. of medical practitioners "approved" for supply of Salvarsan Substitutes.	Kharsivan.	Arsenobillon.	Novarsenobillon.	Diarsenol.	Galyl.	Neokharsivan.	Salvarsan.	Neodiarsenol.
Year ended 31st Dec., 1919	38	50	—	627	—	152	36	16	—	881
Total from commencement of County Scheme to Dec. 31st, 1919	65	52	10	689	—	319	44	24	12	1150

PROPAGANDA WORK.—During the year a considerable amount of educational work has been carried out through the central office and by the two organising lecturers appointed by the County Council, viz. :—

Miss M. M. Tipper, 6, Hartington Road, Preston ;	} or Public Health Department, County Offices, Preston.
Mr. R. Whaites, 96, Tweedale Street, Rochdale ;	

To the end of the year propaganda work had been initiated in 111 of the 122 County districts. In many areas local Propaganda Committees have been established, and in some districts considerable vigour has been shown in the attempt to arouse public interest, and to bring about a realisation of the dangers of venereal diseases and the importance of early and adequate treatment. The interest and sympathy of many employers of labour have also been obtained, thus permitting direct communication with a large body of employees.

The following tabular statement shows the approximate attendances at lectures and workshop meetings up to June 30th, 1920, a total of 49,965 :—

APPROXIMATE AUDIENCES REACHED BY
PROPAGANDA WORK.

Lectures and Addresses by Organising Lecturers, &c.			Medical Lectures.			Lectures to Teachers.	Lectures to Mothers.	Lantern Lectures.	Film Lectures.	Works Meetings.	
Men.	Women	Mixed.	Men.	Women	Mixed.					Men.	Women.
1516	2265	9620	3927	5160	500	460	2415	5470	2300	9010	7322

DISTRIBUTION OF LITERATURE.—At every lecture and works meeting a supply of suitable literature, prepared by the National Council for Combating Venereal Diseases, has been distributed.



TABLE (F) showing HOSPITAL ACCOMMODATION and DISINFECTING APPARATUS provided in or for each of the County Districts; also NUMBER OF CASES OF INFECTIOUS DISEASES NOTIFIED, REMOVED TO HOSPITAL, &c.

(a) (c) (d) Totals supplied by local Medical Officers of Health; (b) by Registrar-General.

District.	Nature of Hospital accommodation.		Infectious Diseases.																							Disinfecti Apparatus and where situated.															
	For ordinary infectious diseases.	For Small-pox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital (d) Deaths in hospital.																																						
			Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.																
Abram	8 beds	Iron building— 4 beds*	(a) .. 3 2 14 1 1 11 5 3 54 94	(b) 12 13 6 2 22	(c) 1 13	(d) 1 1	Aecrington (B.) ..	(a) .. 26 8 18 2 3 .. 1 19 4 75 52 19 188 415	(b) .. 11 2 2 55 29 9 5 4 1 .. 116	(c) 2 2	(d)	Adlington	(a) .. 1 6 12 1 3 11 6 5 45	(b) 12 3 3 2 10	(c) .. 1 12 13	(d)	Chorley (B.)	(a) .. 53 11 29 5 1 .. 1 1 28 .. 2 1 36 33 13 61 275	(b) .. 12 1 .. 2 1 1 28 .. 2 1 36 16 3 1 .. 75	(c) .. 21 .. 26 3 50	(d) .. 4 4	Leyland	(a) .. 8 3 16 1 8 4 6 46	(b) .. 1 2 11 10 2 24	(c) 2	(d) 1	Chorley (R.)	(a) .. 14 6 44 1 1 .. 2 .. 8 .. 1 .. 21 25 12 11 146	(b) .. 1 .. 1 1 23 16 6 51	(c) .. 7 .. 36 43	(d) 1 1	Ashton-in-Makerfield	(a) .. 63 8 225 4 2 4 8 .. 1 .. 62 35 14 46 472	(b) .. 3 .. 2 1 2 31 21 5 .. 1 11 .. 77	(c) .. 60 .. 173 3 1 237	(d) .. 3 .. 2 5	Aspull	(a) .. 14 17 70 1 2 31 5 1 7 148	(b) 1 2 25 7 1 6 .. 42	(c) 3 3	(d)

* Combined under the Wigan and District Joint Hospital Order for the purpose of providing a small-pox hospital. † Inward transfers. ‡ Cases not notified.

NOTE.—Tuberculosis cases removed to Hospital or Sanatoria not shown under (c) and (d). Acute primary pneumonia and acute influenzal pneumonia notifiable; deaths from all forms of pneumonia shown under (b).

District.	Nature of Hospital accommodation.		Infectious Diseases.																							Disinfection.		
	For ordinary infectious diseases.	For Small-pox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							Apparatus and where situated.	No. of Houses or Room dis-infected.	
			Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.			
Ashton-under-Lyne (B.)	20 beds	Joint at Harts-head—12 beds	(a)	..	18	19	90	3	1	2	..	2	27	..	3	1	94	67	15	92	440	Steam—Town's Yard	229	
			(b)	..	5	1	1	1	..	..	1	1	..	..	..	..	..	..	17	42	15	1	..	10	155
			(c)	..	5	..	44	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	50
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Audenshaw ..	2 beds, Hyde Borough hospital	Joint at Harts-head—12 beds	(a)	..	3	2	15	1	4	16	10	6	8	65	Steam—Ashton-under-Lyne (B.)	18	
			(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	8	4	2	..	..	1	..	16
			(c)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Hurst	Nil	Joint at Harts-head—12 beds	(a)	6	34	1	2	4	..	2	..	19	9	2	8	87	Steam—Hospital ..	87	
			(b)	..	†1	†1	1	..	..	..	..	..	..	..	..	..	..	7	7	1	1	..	..	..	19
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2
Lunchurst (R.) ..	Nil	Joint at Harts-head—12 beds	(a)	..	2	5	11	1	6	..	1	..	44	16	..	85	171	Steam—Ashton-under-Lyne (B.)	16	
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	16	5	4	2	..	3	..	30
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Atherton ..	Joint at Astley for all purposes:— 64 beds and 38 cots.	30 beds	(a)	..	82	22	39	1	1	7	23	..	2	..	33	17	15	191	433	Steam—Gas Works	148
				(b)	..	3	1	17	11	6	7	4	5	..	59		
				(c)	..	43	..	23	1	67		
				(d)	..	2	2		
Golborne ..	Joint at Astley for all purposes:— 64 beds and 38 cots.	30 beds	(a)	..	1	4	12	1	12	25	12	5	2	74	Steam—Hospital ..	20	
				(b)	†1	1	6	2	1	1	..	1	..			12
				(c)	9			9
				(d)
Leigh (B.) ..	Joint at Astley for all purposes:— 64 beds and 38 cots.	30 beds	(a)	..	101	36	26	6	2	2	..	34	39	..	3	1	71	65	52	1002	1440	Steam—Destructor Works	243
				(b)	..	10	1	..	1	2	1	50	50	8	24	2	27	..	176		
				(c)	..	81	..	9	3	1	94		
				(d)	..	6	†2	8		
Tyldesley-with-Shakeley	Joint at Astley for all purposes:— 64 beds and 38 cots.	30 beds	(a)	..	12	12	39	7	1	7	20	..	1	..	28	25	16	105	273	Steam—Sanatorium	65
				(b)	..	3	1	1	41	17	4	2	..	7	..	76		
				(c)	..	8	..	14	6	28		
				(d)	..	2	1	3		
Leigh (R.) ..	Joint at Astley for all purposes:— 64 beds and 38 cots.	30 beds	(a)	..	15	6	1	1	3	22	9	10	84	151	Steam—Hospital ..	110	
				(b)	..	2	†1	19	7	1	2	..			32
				(c)	..	13			13
				(d)	..	1			1
Bacup (B.) ..	Arrangement with Bury Joint Hospital Board	Joint at Todmorden—32 beds	(a)	..	5	25	6	6	2	40	21	12	44	45	206	Steam—Town's Yard	91	
		(b)	..	1	1	..	..	..	..	..	..	..	..	..	..	..	12	9	7	2	..	1	..	34	
		(c)	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	1	..	..	..	..	..	4	
		(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

Nature of Hospital accommodation.			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							Disinfection.					
District.	For ordinary infectious diseases.	For Small-pox	Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polionyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms disinfected.				
Fleetwood ..	Joint at Moss Side, 48 beds and 12 cots		(a) ..	57	25	176	..	..	..	2	1	..	1	..	..	..	..	20	16	3	82	..	..	..	383	Steam—Town's Yard	214		
			(b) ..	5	..	..	..	..	..	..	1	1	..	..	..	..	..	..	11	13	4	..	1	3	..	39			
			(c) ..	20	..	108	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	128			
			(d) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Kirkham ..					(a) ..	3	..	2	..	..	..	..	..	..	..	1	..	..	..	3	12	4	..	..	..	..	25	No proper apparatus	31
					(b) ..	12	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	3	..	..	..	..	13		
					(c) ..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
					(d) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Lytham ..					(a) ..	4	..	62	5	..	..	..	..	..	..	..	..	..	..	5	6	..	96	..	..	..	178	Steam—Destructor Works	312 (rooms)
					(b) ..	2	1	2	2	..	..	..	..	..	..	..	..	..	..	10	4	1	1	3	4	..	30		
					(c) ..	2	..	57	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	61		
					(d) ..	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
Poulton-le-Fylde			Joint at Elswick (With Preston (R.), &c. See next pages) 15 beds		(a) ..	..	..	1	..	..	..	..	..	..	..	3	..	..	..	1	..	..	6	..	..	9	20	No proper apparatus	Nil
					(b)	1	..	1			
					(c)		
					(d)	
St. Annes-on-the-Sea					(a) ..	13	..	32	..	..	..	..	..	..	..	1	..	..	..	5	13	1	32	6	..	..	103	Steam—Adjoining Refuse Destructor	151
					(b) ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	6	8	2	..	..	..	..	17		
					(c) ..	7	..	23	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30		
					(d) ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
Thornton ..					(a) ..	4	..	59	1	..	..	..	..	..	..	..	..	..	..	12	6	1	19	..	..	..	102	No proper apparatus	6
					(b) ..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	4	3	..	..	..	..	..	9		
					(c) ..	2	..	59	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	62		
					(d) ..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Fylde (R) ..	At Fylde, &c., joint (Moss Side)				(a) ..	2	..	10	4	..	..	1	..	..	2	..	..	..	1	13	8	2	9	..	..	..	52	No proper apparatus	2
					(b) ..	1	2	10	5	18			
					(c) ..	2	..	7	4	1	14			
					(d) ..	1	2	3			
Preesall ..					(a) ..	1	1	3	..	..	..	..	..	..	2	..	..	..	..	..	3	2	5	..	..	..	17	No proper apparatus	12
					(b) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1		
					(c) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
					(d) ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Garstang (R.) ..			Nil ..	..	(a) ..	25	2	8	1	..	..	1	..	..	1	1	..	..	..	8	5	3	9	..	..	..	64	No proper apparatus	
					(b) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	8	..	..	..	3	..	16		
					(c) ..	2	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6		
					(d) ..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		

District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.						
	For ordinary infectious diseases.	For Small-pox.	<i>Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.</i>																				Apparatus and where situated.	No. of Houses or Rooms disinfected.					
			Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia.	Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.			Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	
Fulwood ..	}	}	(a)	..	6	1	1	..	..	..	1	..	..	..	1	..	..	16	6	..	13	..	..	..	45	Steam—Hospital ..	50
			(b)	1	3	4	1	2	..	11			
			(c)	..	4	4		
			(d)		
Longridge ..	Joint at Fulwood 45 beds	Joint at Elswick (With Fyde, &c. See previous page)	(a)	..	8	3	8	..	..	..	..	..	..	..	..	..	..	1	2	..	1	..	..	..	23	Steam—Hospital ..	20
			(b)	..	1	9	7	1	18			
			(c)	..	8	..	8	16		
			(d)		
Preston (R.) ..	}	}	(a)	..	11	5	45	4	..	..	2	1	..	..	5	..	..	24	8	4	21	..	..	..	130	Steam—Hospital ..	156
			(b)	..	3	2	7	12	3	1	..	28			
			(c)	..	6	..	39	3	1	49		
			(d)	..	1	1		
Barrowford ..	At Nelson Boro. hospital	At Nelson Boro. hospital	(a)	..	1	5	7	..	..	..	..	..	..	1	..	..	..	5	1	..	7	..	..	..	27	Steam—Nelson (B.)..	9
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	..	..	..	3	..	8		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Billinge ..	Nil ..	Cottage—4 beds*	(a)	..	3	1	4	..	..	..	1	..	..	1	3	..	1	1	7	3	..	..	..	..	25	No proper apparatus	12
			(b)	..	1	..	..	..	..	..	1	..	..	..	..	..	..	1	5	2	..	..	1	..	11		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blackrod ..	}	Nil* ..	(a)	..	3	4	2	1	..	..	1	..	1	..	1	..	..	9	3	4	5	..	..	..	34	Steam—Hospital ..	33
			(b)	..	1	5	6	1	1	..	14			
			(c)	..	3	..	1	4			
			(d)	..	1	1			
Horwich ..	Joint at Fall Birch, Horwich, 55 beds	Temporary hospital —5 beds*	(a)	..	11	5	3	..	..	..	..	..	..	..	13	..	..	68	16	14	20	..	..	..	150	Steam—Hospital ..	30
			(b)	..	3	†1	†1	12	14	2	..	33			
			(c)	..	8	..	1	9			
			(d)			
Westhoughton ..	}	Temporary hospital —12 beds*	(a)	..	14	2	25	5	..	..	3	1	1	3	7	..	..	18	7	16	..	..	..	102	Steam—Hospital ..	90	
			(b)	..	6	..	..	..	..	..	2	1	..	..	..	..	..	..	16	6	1	..	..	..	32		
			(c)	..	5	..	20	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30		
			(d)	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
Brierfield ..	}		(a)	..	1	4	1	..	..	..	..	..	1	..	10	..	..	30	11	6	10	..	..	..	74	Steam—Burnley C.B.	20
			(b)	1	14	9	1	..	25			
			(c)	..	1	2	1	4			
			(d)			
Padham ..	Joint with Burnley (C.B.) for all purposes (Kibble Bank) (Crown Point)		(a)	..	11	7	6	1	..	1	1	1	..	1	15	..	..	22	13	6	12	..	..	..	97	Steam—Burnley C.B.	70
			(b)	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	5	11	4	..	..	..	23		
			(c)	..	7	2	4	1	4	2	20			
			(d)	..	1	1	2			
Burnley (R.) ..	}		(a)	..	36	4	22	2	..	..	2	1	1	3	3	..	..	32	16	11	159	..	..	..	292	Steam—Burnley C.B.	52
			(b)	..	3	2	18	9	1	..	1	2	..	36			
			(c)	..	12	..	9	21			
			(d)	..	1	1			

District.	Nature of Hospital accommodation.		Infectious Diseases.																						Disinfection.	
	For ordinary infectious diseases.	For Small-pox.	<i>Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.</i>																						Apparatus and where situated.	No. of Houses or Rooms disinfected.
			Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.			Total.
Carnforth ..	2 wards—12 beds (Crag Bank)	Nil	(a) .. 9 (b) .. 1 (c) (d)	2	1 ..	31	40 .. 4	No proper apparatus	4
Chadderton ..	At Oldham Boro. hospital	} Joint at Racefield —26 beds	(a) .. 26 (b) .. 1 (c) .. 11 (d)	25 ..	80 ..	.. ..	.. ..	.. ..	1 .. †2	.. ..	2 ..	5 ..	.. ..	6 ..	.. ..	60 ..	44 ..	23 ..	418 ..	.. ..	.. ..	.. ..	690 .. 70 27 6	Steam at hospital, available for small-pox cases	203 (room)
Crompton ..	Do. ..		(a) .. 11 (b) .. 3 (c) .. 4 (d)	12 ..	26 ..	1 ..	.. ..	.. ..	.. ..	.. ..	.. ..	1 ..	21 ..	.. ..	.. ..	.. ..	46 ..	26 ..	18 ..	279 ..	.. ..	.. ..	76 .. 32 21 1	Steam—Destructor Works	75
Royton ..	Do. ..		(a) .. 28 (b) .. 4 (c) .. 7 (d)	7 ..	25 ..	.. ..	.. ..	.. ..	.. ..	1 .. 1	.. ..	7 ..	18 ..	3 ..	.. ..	21 ..	21 ..	9 ..	316 ..	.. ..	.. ..	13 .. 43 26	469 ..	Steam—Oldham C.B. (room)	382 (room)
Church ..	Nil		Nil—Can send to Finnington (Blackburn)	(a) .. 1 (b) (c) (d)	2 ..	.. ..	.. ..	.. ..	.. ..	1 .. 1	.. ..	3 ..	1 ..	.. ..	.. ..	.. ..	12 ..	3 ..	5 ..	10 ..	.. ..	.. ..	38 .. 20	Steam—Oswaldtwistle	27
Clayton-le-Moors	At Burnley, &c., joint hospital	At Accrington Boro. hospital	(a) .. 5 (b) (c) (d)	5 ..	1 ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	8 ..	.. ..	.. ..	.. ..	5 ..	13 ..	5 ..	65 ..	.. ..	.. ..	110 .. 19	Steam—Accrington (B.)	18	
Clitheroe (B.) ..	Nil	} Joint with Bowland (Yorks)—8 beds	(a) .. 1 (b) .. 1 (c) (d)	1 ..	5 ..	3 ..	.. ..	.. ..	.. ..	.. ..	.. ..	5 ..	.. ..	2 ..	.. ..	19 ..	6 ..	6 ..	10 ..	.. ..	.. ..	58 .. 23	Steam—Gas Works	36	
Clitheroe (R.)	Nil		(a) .. 2 (b) (c) (d)	10 ..	1 ..	.. ..	.. ..	.. ..	1 ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	4 ..	3 ..	2 ..	.. ..	.. ..	23 .. 13	Steam—Clitheroe (B.)	24	
Colne (B.)	10 beds ..		20 beds ..	(a) .. 20 (b) .. 1 (c) (d)	16 ..	55 ..	.. ..	.. ..	.. ..	.. ..	2 .. 1	6 ..	6 ..	1 ..	.. ..	.. ..	65 ..	38 ..	7 ..	258 ..	.. ..	3 .. 4	474 .. 76 2	No proper apparatus	487
Croston ..	At West Lancashire Rural hospital		Nil	(a) (b) (c) (d)	2 ..	6 ..	1 .. 1	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	.. ..	1 .. 1	2 .. 1	.. ..	.. ..	.. ..	.. ..	12 .. 4 4	Steam—Hospital	8

† One death from puerperal fever, and all pneumonia deaths in hospital are inward transfers.



District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.								
	For ordinary infectious diseases.	For Small-pox.	<i>Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.</i>																				Apparatus and where situated.	No. of House or Room disinfected.							
			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.			Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.				
Daiton-in-Furness	Joint at High Carley—30 beds	At Barrow Boro. hospital	(a)	..	0	4	37	1	..	..	..	..	3	1	2	..	..	..	13	21	4	8	..	..	..	100	No apparatus	..	100		
			(b)	..	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	12	15	6	..	..	..	..				37	
			(c)	..	4	..	32	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	37
			(d)	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	2
Ulverston	Joint at High Carley—30 beds	At Barrow Boro. hospital	(a)	..	5	1	9	1	..	..	..	..	..	3	..	..	..	..	..	15	..	74	..	..	..	108	No apparatus	..	34		
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	7	8	1	..	..	3	..	..				20	
			(c)	..	4	..	9	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	14
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..
Ulverston (R.)	Joint at High Carley—30 beds	At Barrow Boro. hospital	(a)	..	7	9	27	1	..	..	1	..	1	..	7	..	..	..	13	24	11	122	..	..	..	223	No apparatus	..	45		
			(b)	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	6	16	3	2	1	..	..	..				29	
			(c)	..	5	..	11	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	18
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..
Darwen (B.)	20 beds for scarlet fever; 8 for enteric fever	Converted farm-house—2 beds	(a)	..	14	6	17	1	..	..	2	..	..	22	1	..	..	18	18	9	69	..	..	..	179	Steam—Hospital	..	80			
			(b)	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	55	22	7	..	4	1	..				..	91	
			(c)	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	9
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..
Denton	4 beds, Hyde Boro hospital	2 beds, Hyde	(a)	..	16	8	28	1	..	..	2	..	..	9	12	..	4	..	32	..	..	75	..	..	..	187	No apparatus	..	68		
			(b)	..	2	1	..	..	..	..	1	..	..	..	..	..	..	..	25	7	3	..	..	2	..	..				41	
			(c)	..	2	..	3	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..				..	7
			(d)	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	2
Droylsden	5 beds, Hyde Boro. hospital	1 bed, Hyde	(a)	..	2	18	24	1	..	..	..	..	8	24	..	..	..	38	33	5	116	..	..	..	269	Steam—Destructor Works	..	48			
			(b)	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	15	16	2	..	1	1	..				..	37	
			(c)	..	1	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	8
			(d)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	1
Eccles (B.)	20 beds, Salford Boro. hospital	6 beds, Salford	(a)	4	30	17	219	..	..	..	2	1	1	9	21	..	1	..	66	87	35	813	..	..	..	1306	Steam—Sewage Works	..	1378		
			(b)	..	2	1	4	..	..	..	1	1	1	..	..	..	..	..	34	41	5	5	10	4	..	..				109	
			(c)	4	22	2	38	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	69
			(d)	..	1	..	3	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	5
Failsworth	At Oldham Borough hospital	Chadderton, &c., Joint Board—2 beds	(a)	..	13	11	44	..	..	..	4	1	..	8	33	..	1	..	74	36	16	230	..	..	..	471	Steam—Oldham C.B.	..	53 (rooms)		
			(b)	..	3	1	..	†1	..	..	2	..	..	..	..	..	..	..	11	21	4	1	..	2	..	..				46	
			(c)	..	5	..	7	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	13
			(d)	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	†1	..	..	..	..	..	..	..				..	4
Farnworth	30 beds	At Bury, &c., joint hospital	(a)	..	23	22	45	1	..	..	1	..	..	5	5	..	..	2	21	35	27	436	..	..	..	623	Steam—Hospital	..	10 (rooms)		
			(b)	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	49	30	5	10	..	8	..	..				103	
			(c)	..	6	..	37	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	43
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..
Little Lever	At Farnworth hospital	At Bury, &c., joint hospital	(a)	..	9	4	2	..	..	..	..	..	2	3	..	..	..	1	7	3	90	..	..	..	121	Steam—Hospital	..	32 (schools)			
			(b)	..	4	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	1	2	..	..	..				..	15	
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..				..	..	..



District.	Nature of Hospital accommodation.		Infectious Diseases.																						Disinfection.		
	For ordinary infectious diseases.	For Small-pox.	<i>Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital (d) Deaths in hospital.</i>																						Apparatus and where situated.	No. of Houses or Rooms dis-infected.	
			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.			Total.
Fornby ..	At Bootle Borough hospitals ..		(a) .. 15 2 .. 1 34	(b) .. 4 18	(c) .. 13 1 14	(d) ..																				Steam—Bootle C.B.	27
Grange-over-Sands	At Kendal Borough hospital	At Barrow Borough hospital	(a) 3 13	(b) .. 13	(c) .. 1	(d) ..							1				3	1		5						No proper apparatus	6
Great Crosby ..	At Liverpool Borough hospitals		(a) .. 16 5 37 1 2 .. 3 5 13 25 8 141 255	(b) .. 2 1 +1 17 9 .. 2 34	(c) .. 10 17 28	(d) .. 2 1 3																				Dry Heat—Council's Yard	315
Great Harwood ..	Nil Nil		(a) .. 2 6 6 1 1 .. 1 16 33 14 3 83	(b) 1 +2 16 16 7 4 .. 2 .. 32	(c) .. 32	(d) ..																				Steam—Accrington (B.)	35
Haslingden (B.)	Agreement with Bury and District Joint Hospital Board		(a) .. 55 14 14 3 3 .. 6 18 23 14 7 .. 157	(b) .. 5 1 35	(c) .. 3 3	(d) .. 1 1																				Steam—Destructor Works	76
Haydock ..	10 beds at St. Helens Borough hospital	Two wooden pavilions (3 beds)	(a) .. 8 8 42 2 11 46 14 3 44 .. 178	(b) 1 12 15 1 .. 1 6 .. 36	(c) .. 2 14 17	(d) ..																				Steam—St. Helens C.B.	62
Heysham ..	4 beds 4 beds		(a) 3 13 1 6 5 1 18 .. 48	(b) 48	(c) 11 8	(d) 11																			Steam—Lancaster (B.)	48	
Heywood (B.) ..	At Rochdale hospital (Marland)	Bury and District Joint Board at Birtle	(a) .. 6 22 12 1 2 .. 2 5 11 24 42 12 292 .. 431	(b) .. 1 1 2 19 18 5 2 1 5 .. 52	(c) .. 4 1 1 1 7	(d) .. 1 1 2																				Steam—Hospitals ..	25
Hindley ..	16 beds; also at Horwich and Abram when beds available	Arrangement with Leigh Joint Hospital Board	(a) .. 33 16 112 4 1 1 1 25 9 .. 1 .. 75 30 13 19 .. 98	(b) .. 7 2 1 4 1 1 1 29 12 6 12 .. 438	(c) .. 12 .. 66 1 1 1 75	(d) .. 2 1 1 1 81																				Steam—Town's Yard	239
Whiston-with-Roby	1 bed at Whiston (more if vacant)	1 bed at Whiston (more if vacant)	(a) .. 9 .. 8 2 36 1 .. 4 .. 60	(b) 4 3 .. 11	(c) .. 8 .. 8 16	(d) ..																				Steam—Whiston Sanatorium	12

§ Death not classified as poliomyelitis by Registrar-General.



Nature of Hospital accommodation.		Infectious Diseases.																						Disinfection.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
		Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
For ordinary infectious diseases.	For Small-pox.	Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms disinfected.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
14 beds	12 beds*	(a) .. 7 9 83 5 1 4 6 25 28 11 110 289	(b) 1 1 1 1 1 1 53 17 3 1 82	(c) 48 1 1 49	(d) 1 1 2	At Salford Boro. hospital (no contract)	2 beds, Salford ..	(a) .. 3 5 19 1 3 3 19 8 1 17 79	(b) 1 1 18 3 2 17 27	(c) .. 1 1 2	(d) 1 3	At Salford Boro. hospital	At Bury, &c., joint hospital	(a) .. 12 5 15 2 2 10 6 2 156 210	(b) .. 3 .. 1 9 4 1 1 20	(c) .. 1 1 1	(d)	42 beds	11 beds, Littlefell..	(a) .. 10 20 32 2 4 16 16 48 80 29 541 798	(b) .. 2 .. 1 2 †1 51 42 15 9 124	(c) .. 5 .. 21 4 31	(d) 1 1 2	Joint at Green Lane—26 beds	Joint at Burscough—12 beds	(a) .. 8 7 41 1 1 1 1 13 11 8 2 95	(b) .. 1 .. 1 10 2 3 1 19	(c) .. 6 .. 40 1 47	(d) 1 1	At Oldham Boro. hospital	Arrangement with Chadderton, &c., joint hospital contemplated	(a) .. 69 8 5 1 3 9 26 16 1 2 144	(b) .. 4 1 11 9 1 1 27	(c) .. 63 .. 5 68	(d) .. 3 3	At Bootle Borough hospitals	At Bootle Borough hospitals	(a) .. 39 5 181 1 1 6 27 81 15 203 558	(b) .. 3 .. 8 †1 29 23 9 1 79	(c) .. 27 .. 105 1 133	(d) .. 3 .. 7 15	Joint at Smithy Bridge—16 beds	At Bury, &c., joint hospital	(a) .. 9 4 1 2 1 16 7 51 91	(b) .. 2 .. 1 †1 9 7 4 24	(c) .. 3 .. 1 1 5	(d) .. 1 1	At Oldham Boro. hospital	Arrangement with Chadderton, &c., joint hospital contemplated	(a) .. 3 1 28 2 2 2 2 13 19 2 18 92	(b) .. 1 .. 1 1 1 5 9 .. 1 18	(c) .. 1 .. 26 1 28	(d) 1 1	At Oldham Boro. hospital	Arrangement with Chadderton, &c., joint hospital contemplated	(a) .. 1 .. 3 2 1 1 4 2 58 72	(b) 4 5 9	(c)	(d)	Steam—Hospital ..	113																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								



District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.			
			Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																							
			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.			Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Little Crosby	At Liverpool Borough hospitals		(a)	..	2	..	6	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	10	Dry-heat—Great Crosby	6
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(c)	..	2	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Little Hulton	At Bolton Boro. hospital and at Leigh joint hospital	At Leigh joint hospital	(a)	..	6	2	48	1	..	..	..	..	3	..	..	..	8	6	4	69	..	..	147	Steam—Hospital	74
			(b)	..	1	..	..	1	..	..	..	..	..	..	..	..	11	8	6	..	..	..	27		
			(c)	..	1	..	25	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	26		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Middleton (B.)	At Rochdale Boro. hospital	At Chadderton &c., joint hospital	(a)	..	35	9	20	1	..	..	1	2	..	13	10	..	41	42	17	295	..	..	486	Steam—Centre of Town	48
			(b)	..	2	1	..	..	..	..	..	2	..	..	..	..	18	19	6	9	..	4	61		
			(c)	..	19	..	7	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	27		
			(d)	..	1	..	..	..	..	..	..	1	..	..	..	..	†3	..	..	†2	..	..	7		
Morecambe (B.)	25 beds and 2 cots	10 beds and 1 cot	(a)	..	1	7	15	..	..	..	2	..	1	..	..	6	58	37	6	97	..	..	230	Steam—near Electricity Works	47 (and 5 schools)
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	8	9	2	..	..	..	19		
			(c)	..	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Mossley (B.)	Nil	8 beds, May Hills..	(a)	..	11	5	3	..	..	..	1	..	2	2	..	..	7	13	4	304	..	..	352	Steam—Corporation Yard	35
			(b)	..	1	1	..	..	..	..	†1	1	..	..	..	..	9	7	1	1	..	..	22		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Nelson (B.)	8 beds (Catlow)	32 beds (Catlow)	(a)	..	15	22	65	3	..	..	1	..	1	3	11	..	65	32	15	210	..	..	446	Steam—Destructor Works	91 (rooms)
			(b)	..	4	..	..	..	..	..	1	..	..	..	..	..	44	16	9	..	4	4	82		
			(c)	..	..	..	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Newton-in-Makerfield	26 beds	At Liverpool Boro. hospital	(a)	..	17	17	44	1	2	..	1	2	15	..	1	3	40	17	13	96	..	269	Steam—Hospital	118
			(b)	..	..	..	2	..	..	..	1	..	..	..	..	..	..	32	15	3	..	9	62		
			(c)	..	9	1	41	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	54		
			(d)	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Norden	Nil	Converted farm-house—4 beds	(a)	..	..	..	7	..	..	..	..	..	2	5	..	1	..	1	14	..	3	..	33	No proper apparatus	6
			(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	2	2	..	..	..	..	5		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Orrell	Nil	Nil*	(a)	..	1	2	13	..	..	..	..	..	2	4	..	..	20	6	2	12	..	..	62	Steam—Billinge Workhouse	22
			(b)	..	..	..	1	..	..	..	..	..	..	..	..	..	8	6	..	..	1	1	17		
			(c)	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Oswaldtwistle	Nil	6 beds	(a)	..	10	9	4	4	..	..	..	..	2	7	..	1	2	48	12	10	26	..	135	Steam—Gas Works	21
			(b)	..	..	1	..	1	..	..	..	..	..	..	..	..	19	7	1	1	..	1	31		
			(c)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..

District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.			
	For ordinary infectious diseases.	For Small-pox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																				Apparatus and where situated.	No. of House or Room disinfected		
			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenza Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.			Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Prescot	At Whiston Sanatorium		(a) .. 26	2	5	2	..	..	..	..	..	..	1	..	..	..	3	15	..	112	..	..	..	165	Steam—Whiston Sanatorium ..	43
			(b) .. 5	..	..	..	..	..	..	..	..	..	..	..	..	..	17	9	4	12	..	..	..	37		
			(c) .. 23	..	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28		
			(d) .. 4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
Prestwich	At Salford Borough hospitals		(a) .. 76	3	37	..	..	..	1	..	..	3	2	..	..	..	12	13	7	132	..	..	..	286	Steam—Salford C.B. ..	106
			(b) .. 8	1	..	..	..	..	..	..	..	..	2	..	..	..	16	21	3	..	..	..	..	49		
			(c) .. 56	..	22	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	79		
			(d) .. 2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Radcliffe	At hospitals of the Bury and District Joint Hospital Board :— 90 beds .. .. | 40 beds		(a) .. 39	17	123	4	..	..	1	..	..	4	26	..	..	..	17	35	18	675	..	..	..	959	Steam—Hospital ..	213
			(b) .. 3	2	6	..	..	..	1	..	..	..	..	..	..	..	19	22	9	6	..	6	..	74		
			(c) .. 32	2	87	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	124		
			(d) .. 2	1	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7		
Ramsbottom			(a) .. 18	6	56	3	..	..	..	..	..	3	4	..	..	..	64	15	5	40	..	..	..	214	Steam—Destructor Works ..	79
			(b) .. 2	..	1	1	..	..	..	..	..	..	..	..	..	..	17	11	5	..	..	2	..	39		
			(c) .. 16	..	44	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	63		
			(d) .. 2	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
Tottington			(a) .. 2	9	5	2	..	..	..	..	..	..	1	..	1	..	18	9	2	10	..	..	..	59	Steam—Hospital ..	13
			(b) .. ..	..	2	..	..	..	†1	..	..	..	..	..	..	..	9	8	2	..	1	4	..	27		
			(c) .. ..	..	..	4	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5		
			(d) .. ..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2		
Whitefield			(a) .. 7	3	8	..	..	..	..	..	..	3	7	..	..	..	11	5	2	85	..	..	..	131	Steam—Florence Nightingale Hospital, Bury ..	24
		(b) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	6	2	..	..	..	..	18			
		(c) .. 4	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6			
		(d) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Bury (R.)		(a) .. 12	2	12	..	..	..	1	..	..	..	2	..	..	..	13	11	7	107	..	..	..	167	Steam—Florence Nightingale Hospital, Bury ..	100	
		(b) .. 2	..	1	..	..	..	..	..	..	..	..	..	..	..	7	5	..	..	1	..	..	16			
		(c) .. 1	..	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8			
		(d) .. 1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1			
Rainford	Nil 4 beds	(a) .. 4	..	..	..	..	..	..	..	..	..	..	..	..	..	8	..	..	2	..	..	..	14	No apparatus ..	Nil	
		(b) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	..	2	..	..	..	..	11			
		(c) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
		(d) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Rawtenstall (B.)	Arrangement made with Bury and District Joint Hospital Board	22 beds (The Ridg)	(a) .. 5	7	11	..	..	..	1	..	4	8	..	2	34	24	7	133	..	..	..	236	Steam—Small-pox hospital ..	44		
			(b) .. 3	1	1	..	..	..	†1	1	..	..	..	..	..	14	28	3	2	..	1	..	55			
			(c) .. 2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3			
			(d) .. 1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2			
Rishton	Nil, “but can send to Blackburn”	At Oswaldtwistle by agreement from 1st January, 1918	(a) .. 2	4	..	..	..	..	..	..	1	..	..	..	16	7	1	..	..	..	..	..	31	No apparatus, but can send to Blackburn C.B. ..	47	
			(b) .. 1	..	..	..	..	..	..	..	..	..	..	..	8	3	..	..	..	2	..	..	14			
			(c) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d) .. ..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Skelmersdale ..	30 beds ; and at West Lancashire hospital (if required)	Nil	(a) .. 2	..	12	1	..	..	2	..	..	1	8	..	..	17	11	2	..	..	..	56	Steam—West Lancashire Hospital ..	9		
			(b) .. 1	..	..	1	..	..	2	..	..	..	..	..	..	12	3	2	..	..	5	26				
			(c) .. ..	..	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7				
			(d) .. ..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1				

District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.					
	For ordinary infectious diseases.	For Small-pox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																				Apparatus and where situated.	No. of Houses or Rooms disinfected.				
			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia.	Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.			Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Standish with-Langtree	Nil	Cottage—6 beds*	(a)	..	4	3	86	2	..	..	..	..	..	3	..	..	1	23	8	11	..	..	..	..	146	No apparatus ..	69
			(b)	..	..	..	2	..	..	..	..	..	..	..	..	..	..	16	3	1	..	..	..	..	26		
			(c)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1		
Stretford	At Salford Borough hospitals .. (18 beds)	(6 beds)	(a)	..	15	12	80	5	2	3	..	3	9	1	30	83	17	204	215	679	Steam—Sanitary Depôt	255
			(b)	..	2	2	..	1	2	2	39	44	11	2	1	4	..	110		
			(c)	..	3	1	26	3	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	35		
			(d)	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2		
Swinton and Pendlebury	At Salford Boro. hospital (14 beds)	Joint at Linnyshaw Moss—20 beds	(a)	..	22	24	324	3	1	9	35	..	1	..	104	16	11	762	1342	Steam—Destructor Works	339
			(b)	..	1	1	9	1	39	24	8	4	3	3	..	93		
			(c)	..	4	..	122	2	128		
			(d)	6	1	7		
Worsley ..	At Salford Boro. hospital (6 beds)		(a)	..	7	7	78	5	..	..	..	..	1	..	..	..	..	16	4	11	187	..	..	..	316	Steam—Salford C.B.	86
			(b)	1	24	7	1	1	..	1	..	34		
			(c)	..	1	..	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6		
			(d)		
Trawden	At Colne Borough hospitals ..		(a)	..	2	..	4	..	..	..	..	..	1	..	..	..	..	8	6	..	..	..	..	..	21	Steam—Nelson (B.)..	9
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	3	2	1	..	..	..	..	7		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Furton ..	At Bury, &c., joint hospital	2 beds (Bury, &c., joint hospital)	(a)	..	13	5	19	..	..	..	..	..	..	6	..	..	..	..	7	7	..	..	..	..	57	Steam—Hospital ..	42
			(b)	..	3	..	..	..	..	..	..	..	..	..	..	..	..	5	5	3	..	..	1	..	17		
			(c)	..	2	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Upholland	Nil. Occasionally sent to Wigan C.B.	Tent—8 beds*	(a)	..	6	..	21	3	..	..	..	..	..	..	..	..	..	8	2	1	4	..	..	..	45	Steam—Billinge Workhouse	30
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	..	..	3	..	8		
			(c)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Urmston	At Salford Borough hospitals .. (5 beds)	(2 beds)	(a)	..	2	4	41	2	..	..	1	..	..	5	..	..	..	11	7	1	9	..	..	..	83	Steam—Salford C.B.	57
			(b)	..	..	..	1	1	..	..	1	..	..	..	..	..	..	10	7	..	..	..	..	..	20		
			(c)	..	..	1	15	2	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	21		
			(d)	..	..	..	..	1	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	4		
Walton-le-Dale	20 beds (School Lane)	8 beds (Bradkirk)	(a)	..	21	7	20	3	..	..	..	1	..	1	..	..	1	9	17	8	6	..	..	..	94	Steam—Hospital ..	73
			(b)	..	4	1	1	..	..	..	..	..	..	..	..	..	..	8	10	4	..	..	3	..	31		
			(c)	..	20	..	20	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	43		
			(d)	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
Waterloo-with-Seaforth	At Liverpool Borough hospitals		(a)	..	71	20	164	..	..	..	1	8	..	3	7	..	..	31	39	16	275	..	8	..	643	Steam—Council's Yard	288
			(b)	..	8	..	5	..	..	..	..	3	..	..	..	..	..	44	33	4	7	1	7	..	112		
			(c)	..	36	1	92	..	..	..	..	5	..	3	..	..	..	2	..	..	5	..	..	..	144		
			(d)	..	7	..	4	..	..	..	..	2	..	..	..	..	..	16	..	..	2	..	..	..	21		

District.	Nature of Hospital accommodation.		Infectious Diseases.																				Disinfection.				
	For ordinary infectious diseases.	For Small-pox.	Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.																				Apparatus and where situated.	No. of Houses or Rooms disinfected.			
			Small-pox.	Diphtheria and Membranous Group.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Polio-myelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis Lethargica.	Acute Primary Pneumonia. Acute Influenza Pneumonia	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.			Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.
Whitworth ..	Nil	Cottage—12 beds	(a)	..	10	6	3	1	..	..	..	..	..	2	..	..	..	7	21	7	92	..	..	..	149	No apparatus ..	35
			(b)	..	1	1	..	1	..	..	..	..	..	..	..	..	..	9	8	3	1	..	..	..	24		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Widnes (B.) ..	36 beds (Crow Wood)	8 beds (Barrow's Green)	(a)	..	47	12	31	2	..	..	3	..	..	15	1	..	..	112	55	21	87	..	..	..	393	Steam—Hospital ..	105
			(b)	..	6	..	..	1	..	..	19	..	..	..	..	..	..	54	40	9	..	33	7	..	152		
			(c)	..	32	..	19	..	..	..	..	..	..	..	..	..	..	51	..	..	..	..	..	..	102		
			(d)	..	4	..	..	..	..	..	..	..	..	..	..	..	..	12	..	..	..	..	..	..	16		
Withnell ..	25—30 beds	1 bed at Finnington (Blackburn)	(a)	..	..	2	..	..	..	..	..	1	..	..	..	..	..	5	9	..	1	..	..	..	18	Steam—Hospital ..	3
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	2		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Barton-upon-Irwell (R.)	At Salford Borough hospitals (5 beds)	.. (2 beds)	(a)	..	4	1	53	4	..	..	..	..	..	..	..	..	..	2	10	2	37	..	..	..	113	Steam—Mode Wheel, Salford	50
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	7	2	..	..	..	..	13		
			(c)	..	..	..	22	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	24		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Blackburn (R.) ..	Nil.—Cases can be removed to Blackburn (C.B.), Chorley (joint), & Withnell fever hospitals	Nil. — Cases can be removed to Finnington. Blackburn (C.B.)	(a)	..	..	3	7	..	..	..	..	..	..	1	..	..	..	..	17	..	2	..	..	..	30	Steam—Blackburn C.B.	20
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	7	..	..	..	1	..	20		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lancaster (R.) ..	At Lancaster Borough hospitals	..	(a)	..	2	3	3	2	..	..	..	..	..	..	..	..	..	3	11	2	66	..	..	..	92	No apparatus ..	17
			(b)	..	2	..	..	..	..	..	..	..	..	..	..	..	..	13	9	2	2	..	..	..	28		
			(c)	..	..	..	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Lunesdale (R.) ..	Hospital at Farleton (13 beds) ..	..	(a)	..	1	..	..	..	..	..	..	..	2	..	..	..	..	1	..	..	4	..	..	..	8	Steam—Lancaster (B.)	3
			(b)	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	4	1	..	..	1	..	9		
			(c)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Sefton (R.) ..	At Liverpool Borough hospitals	..	(a)	..	4	3	5	..	..	..	..	..	..	..	..	..	..	1	1	1	9	..	..	..	24	Steam—Liverpool C.B.	12
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	1	..	..	1	..	8		
			(c)	..	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
Warrington (R.)	At Warrington C.B. and Newton-in-Makerfield	Nil	(a)	..	8	4	28	..	..	..	..	..	2	9	..	..	..	42	12	7	131	..	..	..	243	Steam—Hospital ..	30
			(b)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	19	11	4	..	..	..	..	34		
			(c)	..	2	..	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	15		
			(d)	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
West Lancashire (R.)	26 beds—(Aughton)	Tent—8 beds. Arrangement with Liverpool Corporation for additional accommodation	(a)	..	50	7	24	4	..	..	..	..	3	14	..	1	1	49	17	3	15	..	..	..	188	Steam—Hospital ..	94
			(b)	..	4	1	..	2	..	..	..	1	..	..	..	..	..	20	13	1	..	..	1	..	43		
			(c)	..	43	..	17	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	61		
			(d)	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3		



Disinfection.

Note.—(a) Cases notified. (b) Total deaths. (c) Removals to hospital. (d) Deaths in hospital.

District.	For ordinary infectious diseases.			For Small-pox.			Small-pox.	Diphtheria and Membranous Croup.	Erysipelas.	Scarlet Fever.	Enteric Fever.	Relapsing Fever.	Continued Fever.	Puerperal Fever.	Cerebro-Spinal Meningitis.	Poliomyelitis.	Ophthalmia Neonatorum.	Malaria.	Trench Fever.	Dysentery.	Encephalitis. Lethargica.	Acute Primary Pneumonia. Acute Influenzal Pneumonia.	Pulmonary Tuberculosis.	Other forms of Tuberculosis.	Measles and German Measles.	Whooping Cough.	Diarrhoea, &c. (under 2 years).	Chicken-pox.	Total.	Apparatus and where situated.	No. of Houses or Rooms disinfected.
Whiston (R.)	34 beds	..	20 beds	(a) .. 38 7 43	(b) .. 1 1 12	(c) .. 30 .. 33	(d) .. 1 .. 1	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	3 .. ..	.. .. ..	5 .. ..	.. .. ..	.. .. ..	.. .. ..	1142	1	1159	19 13 74	24 6 ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	404 83 63 2	Steam—Sanatorium	18
Wigan (R.)	Nil	..	Cottage—4 beds*	(a) .. 3 3 40	(b) 1	(c) 1	(d) 1	1 .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	1 .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	.. .. ..	9 13	12 3	4 2	18 ..	.. .. 3	.. .. ..	91 22 2 1	No apparatus	3	
County, 1919 :—				(a)	(b)	(c)	(d)																								
	Total cases notified	..	..	4	1789	836	4080	152	..	2	78	38	20	337	770	3	190	26	2915	2175	868	13021	6	8	456	27774					
	„ deaths	..	..	..	222	24	72	35	..	..	57	18	5	..	..	..	..	..	1940	1339	358	130	86	276	..	4572					
	„ removals to hospital	..	..	(c)	4	904	14	1918	75	..	..	8	14	2	6	..	..	..	68	..	..	30	..	1	2	3046	Total houses or rooms disinfected	..	10870 and 35 schools		
	„ deaths in hospital	..	..	(d)	..	79	3	46	13	..	..	4	8	1	..	..	..	..	40	..	..	6	..	1	..	201					

|| 141 cases of dysentery and 37 of pneumonia occurred in Rainhill Asylum Annexe.

PUBLICITY.—On two occasions the whole of the County area has been placarded giving particulars of the Treatment Centres, and every medical practitioner practising in the geographical County has been supplied with a print of the County scheme, and later with a revised print, giving up-to-date information of the facilities available.

LEGAL PROCEEDINGS.—Legal proceedings have been instituted for offences under the Venereal Diseases Act, 1917, against persons not qualified as medical practitioners for treating persons suffering from venereal diseases, or prescribing remedies therefor. At Ashton-under-Lyne, in April, 1919, three persons were each fined £30 or imprisonment for 123 days' hard labour; and at Leigh, in April, 1920, a medical herbalist was fined £10.

Notification of Infectious Diseases.—Table "F," here inserted, shows the number of cases notified in each urban and rural district in the Administrative County during the year 1919, under the Infectious Disease (Notification) Act, 1889, the Public Health (Tuberculosis) Regulations, and various other Regulations or Orders.

These notifications, according to the information supplied by local Medical Officers of Health in their annual reports, amounted in the aggregate to 27,774, viz. :—

Small-pox	...	...	4	Measles and German	
Diphtheria and Mem-				Measles	... 13,021
branous Croup	...	1,789		Whooping Cough	... 6
Erysipelas	...	...	836	Infantile Diarrhœa	8
Scarlet Fever	...	...	4,080	Chicken-pox	... 456
Enteric Fever	...	...	152	*Malaria	... 770
Continued Fever	...	...	2	*Dysentery	... 190
Puerperal Fever	...	...	78	*Trench Fever	... 3
Cerebro-Spinal Menin-				*Acute Primary Pneu-	
gitis	...	...	38	monia and Acute In-	
Acute Poliomyelitis	...	...	20	fluenzal Pneumonia.	2,915
Ophthalmia Neonatorum	337			*Acute Encephalitis	
Pulmonary Tuber-				Lethargica and	
culosis	...	...	2,175	Acute Polio-En-	
Other forms of Tuber-				cephalitis	... 26
culosis	...	...	868		

* Notifiable for first time in 1919.

As compared with the year 1918, there was a reduction in the "total" notifications of 2,759, but the decrease is really much greater, as the total for 1919 included 3,904 cases of diseases which were not notifiable in the preceding year. Measles showed a diminution of 8,632 cases, pulmonary tuberculosis 419, enteric fever 167, &c., whilst increases were recorded in scarlet fever 2,119, diphtheria 197, chicken-pox 132, ophthalmia neonatorum 105, erysipelas 104, &c.

Chicken-pox was notifiable for limited periods in Bacup (B.), Crompton, Hindley, Poulton-le-Fylde, Royton, and Stretford. Whooping cough was notifiable at Poulton-le-Fylde and St. Annes-on-the-Sea, and infantile diarrhœa at Litherland, Little Crosby, and Waterloo-with-Seaforth.

Table "G", here inserted, compares the incidence of certain notifiable diseases in this County with other Administrative Counties, with the aggregate of English Administrative Counties, and with England and Wales.

The Public Health (Acute Encephalitis Lethargica and Acute Polio-encephalitis) Regulations, 1918, made the diseases named compulsorily notifiable for a period of one year from the 1st January, 1919. By Regulations, dated 31st December, 1919, these provisions are continued in force until the Minister of Health by Order otherwise directs.

From the 1st March, 1919, by the Public Health (Pneumonia, &c.) Regulations, 1919, malaria, dysentery, trench fever, acute primary pneumonia, and acute influenzal pneumonia became compulsorily notifiable.

By the Public Health (Measles and German Measles) Regulations, 1915, Rescission Order, 1919, measles and German measles ceased to be notifiable from the 31st December, 1919.

Isolation Hospitals.—Table "F," inserted opposite page lxi., shows the nature of the hospital accommodation provided in, or available for, each County sanitary district, and gives for each district—

- (a) the number of cases of infectious disease notified,
- (b) the total deaths from such diseases,
- (c) the number of cases removed to hospital, and
- (d) the number of deaths in hospital.

TABLE G.—STATISTICS OF INFECTIOUS DISEASES NOTIFIED IN ADMINISTRATIVE COUNTIES
FOR THE YEAR 1919.

	Estimated Civil Population, 1919.	CASES NOTIFIED.										Small-pox.	Cerebro- Spinal Fever.	Polio- myelitis.	Ophthalmia Neonatorum.
		Scarlet Fever.		Diphtheria.		Enteric Fever.		Puerperal Fever.		Erysipelas.					
		Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.	Cases.	*Rate.				
England and Wales	35,993,000	83,298	2.29	53,918	1.50	3,447	0.10	2,016	0.06	15,763	0.44	294	848	553	8,648
Aggregate of English Administrative Counties (excluding London) }	17,499,372	33,360	1.91	24,219	1.38	1,766	0.10	719	0.04	6,511	0.37	144	335	274	2,604
Administrative Counties :—															
Lancashire	1,662,716	4,066	2.45	1,804	1.08	156	0.09	70	0.04	834	0.50	2	31	18	337
Cheshire	600,918	1,383	2.30	642	1.07	39	0.06	27	0.04	191	0.32	10	6	3	94
Cumberland	206,006	144	0.70	399	1.94	13	0.06	10	0.05	100	0.49	...	1	1	23
Derbyshire	548,423	875	1.60	916	1.67	121	0.22	22	0.04	181	0.33	...	12	5	92
Durham	890,733	4,071	4.57	1,327	1.49	120	0.13	27	0.03	387	0.43	15	12	4	246
Kent	982,445	1,851	1.88	1,615	1.64	87	0.09	38	0.04	343	0.35	23	28	10	146
Middlesex	1,229,018	3,820	3.11	2,097	1.71	74	0.06	68	0.06	539	0.44	8	30	27	170
Northumberland	378,128	858	2.27	596	1.58	109	0.29	13	0.03	216	0.57	...	6	4	66
Nottinghamshire	366,331	725	1.98	374	1.02	26	0.07	21	0.06	158	0.43	...	10	1	66
Staffordshire	674,671	742	1.10	781	1.16	55	0.08	24	0.04	224	0.33	1	15	11	121
Surrey	687,470	1,219	1.77	1,064	1.55	86	0.13	35	0.05	179	0.26	1	19	14	60
Warwickshire	324,557	311	0.96	305	0.94	15	0.05	12	0.04	164	0.51	...	9	6	52
Yorkshire (West Riding) ...	1,436,274	2,678	1.86	2,085	1.45	214	0.15	61	0.04	668	0.47	13	20	10	230

MEM.—The above totals and rates are taken from a Report of the Ministry of Health ; the totals for Lancashire do not quite agree with the totals of notifications as extracted from local reports.

* Calculated per 1,000 of the Estimated Civilian Population.



The table below gives the percentage of removals to hospital of cases of small-pox, scarlet fever, diphtheria, and enteric fever, and contrasts the mortality from these diseases of cases treated at home with those isolated in hospital:—

	Total cases notified.	Hospital Treatment.			Home Treatment.		Case mortality per cent.	
		Cases removed to hospital.	Percentage of removals.	Deaths in hospital.	Cases treated at home.	Deaths at home.	In hospital.	At home.
Small-pox ..	4	4	100·0	..	..	..	..	..
Scarlet Fever.	4080	1918	47·0	46	2162	26	2·39	1·20
Diphtheria ..	1789	904	50·5	79	885	143	8·73	16·15
Enteric Fever.	152	75	49·3	13	77	22	17·33	28·57

The percentages of removals to hospital in the preceding year were: scarlet fever 50·5 of the total notifications, diphtheria 46·3 per cent., and enteric fever 60·1 per cent.

Reference to Table “ F ” will show as regards many areas the inadequacy, or absence, of hospital accommodation.

Disinfection.—The following statement shows the position of the County districts in regard to the provision of disinfecting apparatus:—

Districts provided with steam apparatus ...	27
„ using steam apparatus at hospitals ...	44
„ using steam apparatus belonging to other districts (mainly County or Municipal Boroughs) ...	25
„ provided with dry-heat apparatus ...	1
„ using dry-heat apparatus belonging to another district ...	1
„ without proper appliances ...	24

Several populous areas, as will be seen on reference to Table “ F,” are still unprovided with efficient means of disinfection.

Houses or rooms fumigated in 1919, after the occurrence of infectious disease, numbered 10,870 ; disinfection was also carried out at 35 schools.

Housing of the Working Classes.—The tabular statement below gives brief details, as supplied by the local Medical Officers of Health, of the action taken by the urban and rural District Councils in regard to the inspection of dwelling-houses during the year 1919, and of the action taken to remedy the defects discovered :—

DISTRICT.	Dwelling-houses.			No. of Representations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	Dwelling-houses.		
	Total number Inspected *	No. of Special Inspections under Sec. 17 of 1909 Act.	No. considered unfit for human habitation.			No. in which defects remedied without Closing Orders.	No. made habitable after the making of Closing Orders.	No. demolished.
URBAN.								
Abram	17	..	..	..	..	14	..	..
Accrington (B.).....	..	..	..	..	..	..	..	..
Adlington .....	..	..	..	..	..	..	..	..
Ashton-in-Makerfield.	207	207	8	4	3	163	2	4
Ashton-under-Lyne (B.) .....	..	..	..	..	..	..	..	..
Aspull	1567	28	28	..	..	10	..	..
Atherton	59	..	..	..	..	59	..	..
Audenshaw	50	..	..	..	..	2	..	..
Bacup (B.)	75	52	52	52	..	23	†10	..
Barrowford	61	..	..	..	..	21	..	..
Billinge	42	38	22	..	..	4	..	..
Blackrod	12	..	12	..	..	7	..	..
Frierfield.....	98	..	..	..	..	22	..	..
Carnforth .....	..	..	..	..	..	..	..	..
Chadderton.....	250	..	2	2	2	..	..	..
Chorley (B.)	75	75	3	3	..	..	..	..
Church	19	..	..	..	..	7	..	..
Clayton-le-Moors ....	..	..	..	..	..	..	†4	..
Clitheroe (B.).....	50	6	6	6	6	16	..	..
Colne (B.).....	152	..	..	..	..	30	..	..
Crompton.....	12	2	..	..	..	5	..	..
Croston	5	3	1	..	..	..	..	..
Dalton-in-Furness ..	249	133	133	..	..	23	23	..
Darwen (B.)	308	162	58	34	28	6	2	..
Denton	30	30	..	..	..	1	..	..
Droylsden	23	23	9	9	9	6	..	..
Eccles (B.)	96	..	..	..	..	..	..	..
Failsworth .....	..	..	..	..	..	..	..	..
Farnworth	52	..	..	..	..	13	..	..
Fleetwood .....	..	..	..	..	..	..	..	..
Formby	1	1	1	1	..	4	..	..
Fulwood .....	..	..	..	..	..	..	..	..
Golborne	19	19	2	..	..	..	..	..
Grange-over-Sands ..	..	..	..	..	..	..	..	..

* Total as given by local Medical Officer of Health.

† Closed for habitation, and converted into garage and stable.

‡ Converted into works.

DISTRICT.	Dwelling-houses.			No. of Representations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	Dwelling-houses.		
	Total number Inspected *	No. of Special Inspections under Sec. 17 of 1909 Act.	No. considered unfit for human habitation.			No. in which defects remedied without Closing Orders	No. made habitable after the making of Closing Orders.	No. demolished.
Great Crosby .....	..	..	..	..	..	..	..	..
Great Harwood	45	45	45	..	..	..	..	..
Haslingden (B.) .....	..	..	..	..	..	..	†3	12
Haydock	191	..	..	..	..	95	..	..
Heysham .....	..	..	..	..	..	..	..	..
Heywood (B.)	42	15	15	15	15	4	..	30
Hindley	8	8	8	8	8	..	..	3
Horwich	13	13	..	..	..	13	..	..
Hurst	34	..	..	..	..	9	9	..
Huyton-with-Roby ..	1037	65	9	9	..	..	..	..
Ince-in-Makerfield ..	..	..	..	..	..	..	..	..
Irlam	1	1	1	1	..	..	..	1
Kearsley	19	..	..	..	..	..	..	..
Kirkham	26	14	..	..	..	8	..	..
Lancaster (B.) .....	..	..	..	..	..	..	..	..
Lathom & Burscough.	1226	32	..	..	..	25	..	..
Lees	36	..	1	1	1	20	†6	..
Leigh (B.) .....	..	..	..	..	..	..	..	..
Leyland	23	3	3	3	..	2	..	..
Litherland .....	..	..	..	..	..	..	..	..
Littleborough	119	..	..	..	..	..	..	..
Little Crosby	8	..	..	..	..	..	..	..
Little Hulton	34	..	..	..	..	..	..	..
Little Lever	10	10	3	3	..	..	..	..
Longridge .....	..	..	..	..	..	..	..	..
Lytham .....	..	..	..	..	..	..	..	..
Middleton (B.)	18	..	1	..	..	..	..	..
Milnrow	14	..	..	..	..	9	..	14
Morecambe (B.)	206	76	32	..	..	5	†3	..
Mossley (B.)	3149	..	23	1	1	..	..	..
Nelson (B.) .....	..	..	..	..	..	..	..	..
Newton-in-Makerfield.	17	17	..	..	..	15	..	..
Norden .....	..	..	..	..	..	..	..	..
Ormskirk	525	525	21	..	..	..	..	..
Orrell	194	92	28	..	..	12	..	..
Oswaldtwistle	30	..	..	..	..	22	..	..
Padiham	104	104	3	..	..	..	..	..
Poulton-le-Fylde .....	..	..	..	..	..	..	..	..
Preesall	3	3	1	..	..	1	..	..
Prescot	175	175	175	175	..	..	..	..
Prestwich	2	2	2	2	2	..	..	..
Radcliffe	2	2	2	2	2	..	..	..
Rainford .....	..	..	..	..	..	..	..	..
Ramsbottom .....	..	..	..	..	..	..	..	..
Rawtenstall (B.)	5366	..	370	..	..	..	..	..
Rishton .....	..	..	..	..	..	..	..	..
Royton	300	280	107	3	3	609	..	..
St. Annes-on-the-Sea..	811	..	..	..	..	..	..	..
Skelmersdale	168	168	..	..	..	29	..	..
Standish-with-								
Langtree .....	..	..	..	..	..	..	..	..
Stretford .....	..	..	..	..	..	..	..	..
Swinton and Pendle-								
bury	335	..	..	..	..	..	..	..
Thornton .....	..	..	..	..	..	..	..	..

† Converted into works.

† Closed voluntarily.

DISTRICT.	Dwelling-houses.			No. of Representations to Authority with a view to the making of Closing Orders.	No. of Closing Orders made.	Dwelling-houses.		
	Total number Inspected *	No. of Special Inspections under Sec. 17 of 1909 Act.	No. considered unfit for human habitation.			No. in which defects remedied without Closing Orders.	No. made habitable after the making of Closing Orders.	No. demolished.
Tottington .....	..	..	..	..	..	..	..	..
Trawden	63	17	..	..	..	12	..	..
Turton .....	..	..	..	..	..	..	..	..
Tyldesley-with-Shakerley	45	..	..	..	..	40	..	..
Ulverston .....	..	..	..	..	..	..	..	..
Upholland	930	..	..	..	..	..	..	..
Urmston	22	..	..	..	..	5	..	..
Walton-le-Dale	641	641	55	5	1	..	..	5
Wardle	33	..	..	..	..	33	..	..
Waterloo-with-Seaforth .....	..	..	..	..	..	..	..	..
Westhoughton	62	40	40	..	..	..	..	..
Whitefield	90	40	12	12	12	..	..	..
Whitworth .....	..	..	..	..	..	..	..	..
Widnes (B.)	263	200	200	..	..	39	..	..
Withnell	30	..	..	..	..	20	..	..
Worsley	116	116	..	..	..	30	..	..
Total Urban Districts.	20465	3483	1494	351	93	1493	62	69
RURAL.								
Barton-upon-Irwell ..	26	..	1	1	..	..	..	..
Blackburn .....	..	..	..	..	..	..	..	..
Burnley	5	5	3	3	3	2	3	..
Bury	40	40	23	..	..	3	..	..
Chorley	50	50	20	..	1	..	..	..
Clitheroe (Lancashire portion)	411	..	8	8	..	8	..	3
Fylde	130	130	..	..	..	..	..	..
Garstang	10	10	..	..	..	..	..	4
Lancaster .....	..	..	..	..	..	..	..	..
Leigh	98	8	8	2	2	6	..	3
Limehurst	89	89	89	..	..	..	..	..
Lunesdale	84	..	30	30	3	..	..	..
Preston	6	6	10	6	6	..	..	..
Sefton	640	70	25	..	..	..	..	..
Ulverston	367	..	..	..	..	29	..	..
Warrington .....	..	..	..	..	..	..	..	..
West Lancashire	13	..	1	1	1	..	..	..
Whiston	129	..	..	..	..	13	..	..
Wigan	14	2	2	..	..	..	..	1
Total Rural Districts.	2112	410	220	51	16	61	3	11
Total Administrative County (1919)	22577	3893	1714	402	109	1554	65	80
Do. (1918)	4436	466	188	138	97	623	24	21
Do. (1917)	11445	601	233	178	108	941	45	56
Do. (1916)	15564	1300	329	244	163	2157	85	61
Do. (1915)	27090	4121	890	573	486	3644	296	170

During the war period house inspection was reduced to a minimum, but in the year under report much more attention was given to this important item of sanitary administration. The number of houses inspected increased from 4,436 in 1918 to 22,577, and the number "specially inspected under Section 17 of the 1909 Act" from 466 to 3,893. Of the latter, 1,714 were considered unfit for human habitation, but owing, no doubt, to the shortage of housing accommodation, only 109 Closing Orders were made; in 1,554 instances, it is stated, the defective conditions were remedied without the making of Closing Orders, and 65 were either made habitable after an Order to close had been issued, or were closed as dwellings. Insanitary houses demolished numbered 80.

HOUSES ERECTED IN 1919.—Enquiries as to the number of houses erected in 1919 elicited the following replies:—By Local Authorities nil, by private enterprise 145 in 32 districts. In 1918 these totals were respectively 13 and 29, in 1917 29 and 279, and in 1916 none and 649.

Housing, Town Planning, &c., Act, 1919.—On the 31st July, 1919, this Act was passed.

Local Schemes.—Under Section 1 it is the duty of every Local Authority, within the meaning of Part III. of the principal Act, to consider the needs of their area with regard to the provision of houses for the working classes, and *within three months* after the passing of this Act, and thereafter as often as occasion arises, prepare and submit to the *Local Government Board a scheme specifying—

- (a) the approximate number and nature of the houses to be provided by the Local Authority;
- (b) the approximate quantity of land to be acquired and the localities in which such land is to be acquired;
- (c) the average number of houses per acre;

* Now the Ministry of Health.

(d) the time within which the scheme (or any part thereof) is to be carried into effect.

Power of County Councils and Local Government Board to act in cases where a Local Authority is in default—Section 3 (1) authorises the Local Government Board, when they are satisfied that a Local Authority have failed to fulfil their obligations, either as to the preparation or the carrying into effect of a scheme, or that for any other reason it is desirable that any such obligation should be performed by the County Council instead of by the Local Authority, to transfer to the Council of the County in which the district of the Local Authority is comprised the obligation to prepare and carry out a scheme, or to carry out, either wholly or in part, the provisions of a scheme prepared by the Local Authority.

Where the Board make an Order under this Section, the Order may, for the purpose of enabling the County Council to give effect to the Order, apply any of the provisions of the Housing Acts, or Section 63 of the Local Government Act, 1894, as may be necessary. Provided that the Local Authority shall be entitled to appeal to the Board if, in their own opinion, the amount of the expense which the County Council require them to defray is excessive or unreasonable, or against any refusal by the County Council to make an Order under the said Section 63.

Section 4 provides where a Local Authority, or in cases where the powers of a Local Authority have been transferred to a County Council, such Council have, in the opinion of the Local Government Board, failed to fulfil their obligations, the Board may themselves prepare and carry out a scheme, or take whatever steps may be necessary to carry out any scheme prepared by the Local Authority or Council.

Section 5 deals with a Local Authority's powers, under Part I. (unhealthy areas) and Part II. (unhealthy dwellings) of the principal Act, and the Local Government Board may require a Local Authority to make a scheme for the improvement of an unhealthy area and to do all things necessary for

carrying into execution a scheme so made, and if the Local Authority fail within the time specified, the County Council may be authorised to prepare a scheme and carry same into effect, or the Board themselves may do so.

Inspection by County Medical Officer of Health.—Under Section 6, where a representation is made to the Local Government Board that the Local Authority of any County district have failed to exercise their powers under Parts I. or II. of the principal Act, the Board may direct the County Council to instruct the County Medical Officer of Health to inspect such district, and to make a report to the Board as to the exercise of the powers aforesaid by the Local Authority.

THE HOUSING ACTS, 1890-1919.—The provision of houses by Local Authorities.—In September, 1919, the Ministry of Health forwarded to all Local Authorities a Form of Survey of Housing Needs which the Clerk to the Council was required to fill in, giving information under the following headings:—

Prevailing conditions affecting shortage of houses ;

Estimate of housing needs ;

Areas which are being, or may have to be, dealt with as unhealthy under Part I. or Part II. of the Housing Act of 1890 ;

Insanitary houses (other than houses in unhealthy areas, of which particulars are given under the last heading) ;

Scheme of the Local Authority for the provision of new houses under Section 1 of the Housing, Town Planning, &c., Act, 1919.

It was requested that these Forms should be completed and returned to the Regional Housing Commissioner by 31st October, 1919.

On 30th August, 1919, a circular was addressed to County Councils by the Ministry of Health, asking County Medical Officers of Health to perform certain duties in connection with the Housing Schemes submitted to the Ministry by Local Authorities.

In this connection the District Housing Commissioner referred to the County Medical Officer of Health the Forms of Survey submitted by the Local Authorities in the Administrative County, requesting his opinion as to the adequacy or otherwise of these schemes. In due course the schemes submitted were reported upon, the investigations being carried out by the Medical and Sanitary Staff of the County Public Health Department.

The schemes were classified under four headings, viz. :—

- (1) Reasonably adequate.
- (2) Accept as minimum.
- (3) Inadequate.
- (4) Excessive.

The classification of the 118 original schemes investigated up to June 30th, 1920, shewing the number of houses proposed, is set forth in the following summary :—

No. of Schemes.	C.M.O.H.'s. Classification.	Estimated Net No. of houses required.	No. of Houses proposed by Local Authorities.
60*	Adequate	22,672	21,672
10	Accept as minimum ...	2,426	2,386
47†	Inadequate	8,215	5,091
1	Excessive	415	415
118		33,728	29,564

* Includes 4 "nil" returns.

† Includes 9 "nil" returns.

Table H, here inserted, shows the estimated requirements of each urban and rural authority in the Administrative County, together with the number of houses each Authority proposes to build (if any), and showing the stage reached in regard to each scheme on June 30th, 1920. Some of the schemes have been amended since the original proposals were submitted, and the totals are, therefore, not comparable with those contained in the summary above.

TABLE H.

ADMINISTRATIVE COUNTY OF LANCASTER.

HOUSING NEEDS OF EACH URBAN AND RURAL DISTRICT

as extracted from the Ministry of Health's Form of Survey of Housing Needs, and shewing the position of each scheme on the 26th, June, 1920.

(The figures in Cols. 6-16 are from the official government publication).

DISTRICT.	Area.	Estimated Population, 1919.	Original Estimate of New Houses required.	Total No. of New Houses proposed.	Number of Schemes.	Area of Sites. (Acres).		No. of Lay-outs.		No. of Houses in- cluded in House Plans		No. of Houses included in Tenders.		No. of Houses.	
						Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	On which work has commenced	Com- pleted.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
URBAN—															
Abram.....	1,984	6,498	200	250	3	14.8	14.8	3	...	...	...	...	...	...	...
Accrington (B.)	3,427	45,479	225	...	...	...	...	...	...	...	...	...	...	...	...
Adlington	1,062	4,390	50	100	1	5.5	5.5	1	1	30	30	30	...	...	...
Ashton-in-Makerfield	6,251	22,150	330	330	2	34.5	34.5	2	1	80	80	80	80	28	...
Ashton-under-Lyne (B.)	1,345	45,519	360	360	1	30.3	30.3	1	1	86	86	...	...	...	...
Aspull	1,906	7,579	...	...	...	...	...	...	...	...	...	...	...	...	...
Atherton	2,265	20,390	635	600	2	136.0	19.0	1	1	182	182	96	96	38	12
Audenshaw	1,241	8,178	50	50	2	10.7	10.7	2	1	50	50	...	...	...	...
Bacup (B.)	6,120	21,090	600	600	5 3	71.2 *	40.2 *	5	3	64	64	18	18	28	...
Barrowford	1,385	5,652	207	207	1	16.8	...	...	...	...	...	...	...	...	...
Billinge	4,596	4,749	75	117	1	5.0	5.0	1	1	20	20	...	...	...	...
Blackrod.....	2,392	4,057	100	25	1	3.0	...	1	1	16	16	...	...	...	...
Brierfield	807	8,779	100	100	4 1	12.3 *	10.5	1	1	...	...	...	...	...	...
Carnforth	1,505	3,326	50	100	1	5.0	...	...	...	...	...	...	...	...	...
Chadderton	3,082	29,742	561	500	2	36.2	36.2	2	1	96	96	96	96	26	...
Chorley (B.)	3,614	32,912	600	600	2 1	8.7 *	5.2	3	1	53	53	...	...	...	...
Church	529	6,744	...	20	...	...	...	...	...	...	...	...	...	...	...
Clayton-le-Moors	1,059	8,804	38	38	1	3.0	...	...	...	...	...	...	...	...	...
Clitheroe (B.)	2,385	12,473	80	100	1	8.1	8.1	1	1	100	100	...	...	...	...
Colne (B.)	5,063	26,924	812	812	1	4.0	...	1	1	...	...	...	...	...	...
Crompton	2,865	15,436	489	489	1	20.0	...	1	1	...	...	...	...	...	...
Croston	2,347	1,977	20	48	1	5.0	...	...	...	...	...	...	...	...	...

NOTE.—An asterisk in Columns 7 to 12 indicates that schemes, &c., have been submitted or approved, but the exact figures cannot be stated.



TABLE H—Contd.

[illegible]



TABLE H—Contd.

DISTRICT.	Area.	Estimated Population, 1919.	Original Estimate of New Houses required.	Total No. of New Houses proposed.	Number of Schemes.	Area of Sites. (Acres).		No. of Lay-outs.		No. of Houses in- cluded in House Plans		No. of Houses included in Tenders.		No. of Houses.	
						Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	On which work has commenced	Com- pleted.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
URBAN—Contd.															
Lees	288	4,902	40	150	1	8.6	...	...	...	...	...	...	...	...	...
Leigh (B.)	6,359	46,322	1,125	1,125	5	113.0	14.8	4	3	150	150	150	150	90	...
Leyland	3,725	9,244	300	359	1	22.7	22.7	1	1	...	...	...	...	...	...
Litherland	875	17,525	861	300	1	51.5	51.5	1	1	*	...	...	...	...	...
Littleborough.....	7,856	11,676	149	132	1	12.9	12.9	1	1	*	*	32	...	...	...
Little Crosby	1,924	913	...	...	...	...	...	...	...	...	...	...	...	...	...
Little Hulton	1,699	8,163	200	200	2	59.0	59.0	2	1	43	43	43	43	20	...
Little Lever	808	4,802	240	211	1	20.5	20.5	1	1	211	211	114	114	38	...
Longridge	3,285	4,210	...	6	1	0.5	...	...	...	...	...	...	...	...	...
Lytham	2,464	10,227	...	70	2	7.0	...	...	...	...	...	...	...	...	...
Middleton (B.)	4,775	28,872	700	400	4	54.9	30.9	2	2	58	42	...	...	...	...
Milnrow	5,194	8,355	564	400	1	67.9	67.9	1	1	54	54	54	...	...	...
Morecambe (B.)	1,801	13,925	25	100	1	11.8	11.8	1	1	100	100	...	...	...	...
Mossley (B.)	3,624	12,837	140	50	1	6.1	6.1	...	...	...	...	...	...	...	...
Nelson (B.)	3,466	43,172	600	313	4	69.5	14.0	4	3	177	177	177	177	13	3
Newton-in-Makerfield	3,105	19,840	256	419	1	24.8	24.8	1	1	144	144	16	16	...	...
Norden	5,358	4,035	...	...	...	...	...	...	...	...	...	...	...	...	...
Ormskirk	593	6,908	110	110	1	10.0	10.0	1	1	...	...	...	...	...	...
Orrell	1,617	6,944	103	76	1	7.7	7.7	1	1	80	80	...	...	...	...
Oswaldtwistle	4,885	14,968	...	105	3	4.8	...	1	1	...	...	...	...	...	...
Padiham	970	12,926	142	100	1	10.0	...	...	...	...	...	...	...	...	...
Poulton-le-Fylde	915	2,599	...	...	...	...	...	...	...	...	...	...	...	...	...
Preesall	3,232	1,605	37	36	2	2.0	...	...	...	...	...	...	...	...	...
Prescot	409	8,941	636	670	1	12.2	12.2	1	1	100	100	20	20	24	...
Prestwich	2,448	15,969	600	600	3	39.3	39.3	3	3	333	249	305	106	40	...
Radcliffe	3,082	24,428	520	518	3	47.7	47.7	3	3	68	68	52	52	42	8
Rainford	5,877	3,448	36	36	2	3.7	3.7	2	2	18	18	...	...	...	...

TABLE H—Contd.

DISTRICT.	Area.	Estimated Population, 1919.	Original Estimate of New Houses required.	Total No. of New Houses proposed.	Number of Schemes.	Area of Sites. (Acres).		No. of Lay-outs.		No. of Houses in- cluded in House Plans		No. of Houses included in Tenders.		No. of Houses.	
						Submitted. 7	Approved. 8	Submitted. 9	Approved. 10	Submitted. 11	Approved. 12	Submitted. 13	Approved. 14	On which work has commenced 15	Com- pleted. 16
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
URBAN—Contd.															
Ramsbottom	6,423	15,310	100	100	1	8.3	8.3	1	1	50	50	20	20	6	...
Rawtenstall (B.)	9,535	28,521	1,195	1,195	5	61.1	61.1	2	2	200	200	...	...	...	...
Rishton	2,985	7,611	21	48	1 1	1.0 *	...	...	...	...	...	...	...	...	...
Royton	2,147	18,283	420	420	5	141.9	140.0	4	1	*	...	...	...	...	...
St. Annes-on-the-Sea	3,342	9,959	88	60	1	5.3	5.3	1	1	...	...	...	...	6	...
Skelmersdale	1,942	6,690	12	100	1	1.0	1.0	1	...	...	...	...	...	...	...
Standish-with-Langtree	3,266	7,279	133	133	1	5.8	5.8	1	1	57	57	...	...	...	...
Stretford	3,240	47,506	800	800	5	65.7	65.7	5	4	542	542	542	542	180	38
Swinton and Pendlebury ...	2,284	29,318	675	675	2	23.7	23.7	2	2	231	231	230	230	...	...
Thornton	2,996	5,331	200	100	...	...	...	...	...	...	...	...	...	...	...
Tottington	2,544	7,047	143	143	3	10.6	2.4	...	...	...	...	...	...	...	...
Trawden	6,815	2,779	...	116	3	6.9	...	...	...	...	...	...	...	...	...
Turton	17,335	12,461	91	141	3	11.1	8.7	1	1	56	56	...	...	...	...
Tyldesley-with-Shakerley ...	2,490	16,255	725	500	4	49.2	21.4	1	1	224	224	...	...	...	...
Ulverston	3,172	10,389	80	80	1 3	1.6 *	1.6	1	1	18	18	...	...	...	...
Upholland	4,686	5,279	218	100	3	8.8	8.8	2	2	*	*	...	...	...	...
Urmston	991	8,720	50	50	1	5.0	5.0	...	...	...	...	...	...	...	...
Walton-le-Dale	4,658	12,133	435	435	3	34.5	34.5	2	2	66	66	...	...	...	...
Wardle	3,192	3,443	149	116	1	10.5	10.5	1	1	...	...	...	...	...	...
Waterloo-with-Seaforth	986	29,895	462	462	2	26.0	3.0	1	1	...	...	...	...	...	...
Westhoughton	5,560	15,809	415	415	2	46.9	46.9	2	2	250	250	250	250	36	...
Whitefield	1,404	7,738	463	460	2	13.0	8.0	1	1	54	54	44	44	28	...
Whitworth	4,483	8,584	300	300	...	...	...	...	...	...	...	...	...	...	...
Widnes (B.)	3,093	34,052	1,100	1,100	1	163.8	163.8	1	1	1,500	1,500	...	...	...	...
Withnell	3,705	2,962	68	21	3	3.2	...	...	...	...	...	...	...	...	...
Worsley	5,413	15,052	585	380	3	38.2	38.2	3	3	60	60	60	60	...	...
Total Urban Districts ...	338,850	1,502,876	30,952	29,682	186	2605.6	1840.9	117	97	9,723	9,615	5,943	4,537	767	69



TABLE H—Contd.

DISTRICT	Area.	Estimated Population, 1919.	Original Estimate of New Houses required.	Total No. of New Houses proposed.	Number of Schemes.	Area of Sites. (Acres).		No. of Lay-outs.		No. of Houses in- cluded in House Plans		No. of Houses included in Tenders.		No. of Houses.	
						Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	Submitted.	Approved.	On which work has commenced	Com- pleted.
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
RURAL—															
Barton-upon-Irwell	6,793	9,052	130	130	2	11.0	...	...	...	...	...	...	...	...	...
Blackburn	20,150	8,477	78	99	3	9.9	9.9	3	3	80	80	80	80	58	...
Burnley	41,774	18,266	138	204	6	14.4	1.5	...	...	...	...	...	...	...	...
Bury	12,016	9,063	63	234	8	78.8	...	...	...	...	...	...	...	...	...
Chorley	39,988	22,625	304	304	12	55.4	53.9	10	9	220	220	...	...	...	...
Clitheroe (Lancashire portion)	32,168	6,496	22	22	1	2.5	2.5	1	1	22	22	...	...	...	...
Fylde	38,541	11,493	50	29	12	6.2	3.4	...	...	...	...	...	...	...	...
Garstang.....	57,380	10,738	320	320	31	56.0	...	...	...	...	...	...	...	...	...
Lancaster	54,503	8,732	46	46	5	7.2	...	...	...	...	...	...	...	...	...
Leigh	11,574	10,389	873	711	4	79.1	79.1	3	3	740	740	740	740	87	...
Limehurst	4,689	9,281	100	100	...	...	...	...	...	...	...	...	...	...	...
Lunesdale	76,267	6,154	74	74	3	3.3	...	...	...	...	...	...	...	...	...
Preston	52,929	19,323	200	200	9	22.9	15.4	1	...	...	...	...	...	...	...
Sefton	14,867	4,899	100	100	7	4.5	4.5	7	7	36	36	...	...	...	...
Ulverston	127,549	16,683	100	50	13	11.8	2.1	...	...	...	...	...	...	...	...
Warrington	19,355	11,630	88	112	7	17.2	...	...	...	...	...	...	...	...	...
West Lancashire	61,555	20,067	354	354	25	44.2	26.5	14	12	52	52	...	...	...	...
Whiston	31,179	19,692	334	192	13	22.4	8.0	8	8	80	42	34	...	...	...
Wigan	11,695	6,120	116	116	6	18.2	4.2	...	...	...	...	...	...	...	...
Totals :—															
Rural Districts	714,972	229,180	3,490	3,397	167	465.0	211.0	47	43	1,230	1,192	854	820	145	...
Urban Districts	338,850	1,502,876	30,952	29,682	186	2605.6	1840.9	117	97	9,723	9,615	5,943	4,537	767	69
Administrative County...	1,053,822	1,732,056	34,442	33,079	353	3070.6	2051.9	164	140	10,953	10,807	6,797	5,357	912	69

DISTRICT.	Refuse Destructors provided.	CANAL BOATS.		Public Abattoirs provided.	DAIRIES, COWSHEDS, &C.				NUISANCES.				CLOSET ACCOMMODATION.														SMOKE OBSERVATIONS.		MEDICAL OFFICER OF HEALTH AND INSPECTOR OF NUISANCES, WITH SALARIES.					
		No. Inspected.	No. of Infringements.		No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tubercle.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1919.						Council's Contribution towards cost of Conversion.	Number.	Legal Proceedings and Result.						
									Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pails, &c.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.									
Crompton	Yes	..	..	..	43	2	..	..	74	35	138	..	Cess-pools 35	..	2557	65	812	2850	286	..	..	..	49	..	..	..	..	..	..	..	..	M.O. A. V. Davies (M. Hutton to 31st March, 1919, £100)	
Croston .....	..	..	..	..	30	..	..	..	12	..	12	..	292	292	133	133	31	31	2	..	..	..	1	..	..	..	..	..	3	..	..	I. F. Taylor (A. Wild to 28th Sept., 1919, £150)	
Dalton-in-Furness .....	..	..	..	..	59	..	When required	..	159	38	385	..	374	427	15	878	2090	873	51	36	..	..	..	..	..	..	..	..	..	..	..	M.O. A. Duckworth, £20	
Darwen (B.)	Yes	..	..	Yes	101	105	When required	..	538	411	709	..	..	..	1759	13	6400	10450	2475	..	..	..	8	..	3	Half-cost of pail conversion	105	..	..	..	..	I. T. W. Noblett, £65	
Denton .....	..	..	..	..	24	34	..	..	165	2	275	..	178	328	27	341	4002	3483	661	9	..	..	1	..	7	..	..	..	..	..	..	M.O. W. E. Marsden, £252	
Droylsden	Yes	..	..	..	14	45	When required	..	162	45	914	..	209	321	18	98	3381	2587	39	100	..	..	..	..	..	..	..	..	11	..	..	I. C. R. Walsh, £242 ss.	
Eccles (B.)	Yes	8	9	..	9	80	..	..	576	1473	3571	1—To pay costs	10	14	26	15	11857	10235	233	..	..	..	..	..	5	25s. per closet	15	..	..	..	..	..	M.O. W. M. Hamilton, £275
Failsworth .....	..	..	..	..	11	11	..	..	182	80	812	..	73	132	1086	241	3019	3142	191	..	..	..	..	..	..	Pails—Whole cost	4	..	..	..	..	I. C. W. Laskey, £295	
Farnworth	Yes	..	..	..	15	4	..	..	14	26	225	..	1480	2743	71	1252	3679	1021	601	3	..	..	..	..	..	Privies—Half-cost	7	..	..	..	..	M.O. G. B. Brown, £100	
Fleetwood	Yes	..	..	Yes	12	36	..	..	200	9	250	..	..	..	36	88	3250	3220	32	..	..	..	..	..	..	£4 10s. per closet	..	..	..	..	..	I. R. Rutter, £193	
Formby .....	..	..	..	..	20	..	..	..	210	16	198	..	196	196	419	610	508	402	..	..	..	..	..	..	..	..	..	..	..	..	..	M.O. A. Kershaw, £100	
Fulwood .....	..	..	..	..	35	3	..	..	2	..	2	..	23	23	22	35	2210	956	7	2	..	..	..	..	..	..	..	..	12	..	..	..	I. J. Marshall, £230 ss.
Golborne .....	..	..	..	..	15	5	..	..	106	..	97	..	429	1038	8	80	365	125	18	..	..	..	..	..	8	..	..	..	..	..	..	..	M.O. J. Dobb, £70
Grange-over-Sands .....	..	..	..	..	7	2	When required	..	6	2	2	..	18	18	3	300	510	180	..	..	..	..	..	..	..	..	..	..	..	..	..	..	I. W. Pasquill, £101 12s.
Great Crosby .....	..	..	..	..	18	1	When required	..	..	156	156	..	21	..	5	..	5034	3117	..	..	..	..	..	..	..	By Agreement	8	..	..	..	..	..	M.O. G. H. Patterson, £44
Great Harwood .....	..	..	..	Yes	27	1	..	..	29	..	282	..	..	Tanks 120	66	2400	420	800	2736	..	..	..	..	..	..	Half-cost	..	..	..	..	..	..	I. T. Huddleston, £100
Haslingden (B.)	Yes	..	..	..	76	58	When required	..	136	12	113	..	17	18	1097	1091	416	2500	2406	13	..	..	..	..	..	£2 per closet	..	..	..	..	..	..	M.O. J. Patchett, £100
Haydock .....	..	..	..	..	17	5	..	..	215	8	380	..	1401	1591	3	..	313	313	..	9	..	..	..	..	1	..	..	..	..	..	..	I. H. Eddleston, £182 ss.	
Heysham .....	..	..	..	..	18	..	..	..	8	2	10	..	46	46	4	..	888	600	20	9	..	..	..	..	..	..	..	..	..	..	..	..	M.O. W. R. A. Coates, J. Broomhead to 9th Sept, 1919, £75
Heywood (B.)	Yes	10	..	..	36	5	Yes	..	198	35	393	..	720	1362	365	1044	1548	2290	2939	30	..	..	..	..	..	..	..	88	..	..	..	..	I. R. Austin, £190
Hindley .....	..	..	..	..	26	3	When required	..	1114	257	762	..	1007	1500	1008	50	1540	1502	19	2	..	..	..	..	..	Connection to sewer and supplies water	..	..	..	..	..	..	M.O. A. Dowling, £93
																																	I. J. Evans, £100	
																																		M.O. R. Herd, £50
																																		I. H. Millar, £150
																																		M.O. H. H. I. Hitchon, £135
																																		I. T. Robinson, £215
																																		M.O. J. Chronnell, £160
																																		I. T. France, £200

DISTRICT.	Refuse Destructors provided.	CANAL BOATS.		Public Abattoirs provided.	DAIRIES, COWSHEDS, &C.				NUISANCES.				CLOSET ACCOMMODATION.														SMOKE OBSERVATIONS.		MEDICAL OFFICER OF HEALTH AND INSPECTOR OF NUISANCES WITH SALARIES.		
		No. Inspected.	No. of Infringements.		No. of Cowkeepers.	No. of Dairymen or Purveyors.	Any arrangement for Veterinary Inspection of Cows.	Samples of Milk examined for Tubercle.	Notices served.		Nuisances abated.	Legal Proceedings and Result.	Privy Middens.		No. of Pail Closets.	No. of Ashpits (excluding middens).	No. of Fresh Water Closets.	No. of Portable Receptacles for refuse.	No. of Waste Water Closets.	Conversions during 1919.								Council's Contribution towards cost of Conversion.			Number.	Legal Proceedings and Result.
									Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pails, &c.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.						
Horwich	39	15	..	..	92	20	145	..	61	61	94	1272	2742	1188	1244	..	..	2	..	..	..	Privies—Half-cost Pails—Whole cost £2 per closet	20	..	M.O. J. S. Sewell, £100 I. J. H. Brocklehurst, £260		
Hurst	5	6	When required	..	53	..	53	..	27	33	5	630	323	376	1782	..	12	..	1	..	..	..	60	..	M.O. R. Price, £62 10s. I. S. Shirt, £160		
Huyton-with-Roby	9	..	..	..	6	4	20	..	345	460	76	40	480	520	..	1	..	..	..	..	..	..	..	..	M.O. A. W. McDonald, £40 I. J. Worrall, £120		
Ince-in-Makerfield	25	8	..	8	5	..	..	546	33	546	..	1009	2067	54	56	1411	977	..	17	..	..	..	..	..	..	..	..	M.O. J. H. Fletcher, £130 I. W. Thorpe, £242 ss.	
Irlam	4	3	..	..	106	18	94	..	781	836	90	443	1196	973	50	8	..	..	..	..	..	..	4	..	M.O. J. W. Roberts, £110 17s. 7d. I. R. W. Winterbottom, £130 1s. 7d.		
Kearsley	5	..	..	..	14	40	163	..	723	1404	39	184	500	253	156	..	..	..	..	..	..	Half-cost	..	..	M.O. J. C. Eames, £80 I. G. Walsh, £140 ss.		
Kirkham	9	..	..	..	67	2	83	..	205	352	17	49	562	341	28	23	..	..	..	..	..	..	14	..	M.O. C. Court, £45 I. J. R. Holmes, £90		
Lancaster (B.)	Yes	20	1	Yes	27	85	..	..	955	421	1589	..	25	25	67	4772	12148	2331	..	..	..	..	1	..	..	..	15	..	M.O. J. D. Buchanan, £480 (Including £20 for the Port) I. F. W. Smith, £271 (Including £20 for the Port)
Lathom and Burscough	8	14	1	38	..	800	1200	A few	200	300	100	10	6	M.O. J. G. Laing, £70 I. T. Burrows, £160	
Lees	3	28	4	23	..	1	..	834	681	259	578	63	M.O. J. Currie, £60 I. J. W. Liversage (b	
Leigh (B.)	Yes	22	..	..	55	9	Yes	..	432	38	410	..	210	421	5	3868	7802	1160	853	..	..	..	..	..	..	One-third cost	53	..	M.O. J. C. Beckitt, £250 I. E. Jackson, £307
Leyland	18	..	..	..	139	6	109	..	810	810	487	162	789	719	25	20	..	..	3	..	..	..	23	..	M.O. E. Berry, £60 I. H. Cheetham £120		
Litherland	9	7	When required	..	382	2	403	..	3	3	10	924	3356	1439	M.O. T. D. Williams, £100 I. W. H. Elce, £150	
Littleborough.....	..	36	1	..	76	1	..	..	92	2	384	..	..	..	1616	1782	419	79	395	..	..	..	8	..	1	..	28	..	M.O. (a) J. T. R. MacGill, £100 G. MacGill, acting, £67 I. H. E. Williamson, £218 ss.
Little Crosby	2	3	1	..	1	..	55	51	5	9	245	114	M.O. E. Buxton, £40 I. T. Massam (b),	
Little Hulton	11	3	11	11	198	..	616	1195	..	178	441	172	104	6	M.O. J. H. Marsh, £60 I. J. T. Davies, £135	
Little Lever	14	2	..	9	9	45	..	39	..	366	728	21	54	233	136	114	Half-cost (in special cases)	3	M.O. J. S. Pickford, £45 I. J. Seddon, £120	
Longridge	10	1	36	..	36	..	13	13	31	211	493	726	400	2	M.O. G. Jukes, £50 I. J. Marshall, £60	
Lytham	Yes	Yes	18	14	When required	..	63	..	171	10	57	2357	2294	6	M.O. (a) J. C. Fisher, £130 (G. Barlow acting	
Middleton (B.)	Yes	46	60	10	331	4	399	..	1	1	425	1767	2228	1457	3639	4	Half-cost	52	M.O. H. Yates, £200 A. Ball (F. J. Wheelden, to 3rd Aug., 1919) £300	
Milnrow	74	89	13	400	..	90	98	1274	193	254	772	78	2	2	5	M.O. C. H. Norton, £264 I. J. Chadwick, £60 I. T. Warrington, £170

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Morecambe (B.)	Yes	17	47	Yes	..	54	..	54	..	190	200	..	4000	4318	Not known	M.O. J. W. Watterson (<i>b</i>), £5		
Mossley (B.)	19	98	..	83	..	3	3	2873	1055	282	358	152	2	I. T. B. Lamb (<i>b</i>), £241		
Nelson (B.)	Yes	36	48	Yes	..	57	15	520	4	7320	2273	2530	8391	11	..	2	M.O. J. Healey, £100		
Newton-in-Makerfield	Yes	15	14	207	71	431	..	297	444	2710	94	786	3244	30	5	..	1	5	I. R. H. Buckley (<i>b</i>)		
Norden	56	10	4	14	..	50	102	688	186	175	241	12	3	M.O. A. P. Millar, £150		
Ormskirk	Yes	4	5	..	6	40	9	44	..	363	448	44	165	988	575	7	I. J. T. Nutter, £225		
Orrell	15	7	26	13	133	..	455	939	..	6	376	314	8	1	M.O. H. E. Watkins, £150		
Oswaldtwistle	Yes	70	2	116	35	280	..	193	324	395	1484	341	235	2454	1	3	1	I. H. Ashcroft, £250	
Padiham	Yes	10	22	201	11	451	1424	27	490	2922	1559	3	..	6	..	34	M.O. W. H. Bateman, £40	
Poulton-le-Fylde	18	7	..	15	..	98	98	5	216	531	350	11	I. J. W. Sunderland, £100	
Preesall	36	4	11	..	11	..	268	268	126	52	93	32	M.O. G. E. Scholefield, £80	
Prescot	3	9	104	..	89	..	510	815	14	234	1011	543	..	4	I. H. W. C. Chadwick, £155	
Prestwich	12	14	79	6	184	2—Order to abate and to pay costs	139	202	104	564	4271	2748	223	9	..	2	7	M.O. K. Fraser, £75	
Radcliffe	Yes	20	26	201	52	987	..	1039	1898	260	919	2579	1801	1673	17	3	..	73	I. J. Farrimond, £75	
Rainford	22	1	13	..	13	..	700	680	8	8	46	1	M.O. A. E. Townley, £130	
Ramsbottom	Yes	69	1	64	5	478	..	186	360	616	918	1379	900	1464	7	6	..	2	..	8	I. A. Ashworth, £200	
Rawtenstall (B.)	*Yes	250	1	245	4	271	1—Order made and to pay costs	50	50	555	680	2163	4970	3858	1	M.O. N. R. Dharmavir, £144s	
Rishton	30	1	When required	..	47	1	48	..	34	26	24	1011	235	92	1592	8	I. E. Shaw (R. Ratcliffe, to 30th June, 1919) £160	
Royton	Yes	23	3	Yes.	..	161	34	335	1—Fine imposed	2	2	2600	610	697	1935	946	9	5	2	M.O. W. Riddell, £33	
St. Annes-on-the-Sea	Yes	Yes	19	6	Yes	5	255	..	285	19	48	..	4598	2406	21	17	I. J. B. Moss, £60	
																															M.O. D. R. Pike (M. R. Gooding, to 30th June, 1919) £40	
																																I. G. W. Proffitt, £58
																																M.O. S. M. Green, £85
																																I. R. Norris, £182
																																M.O. F. Stephenson, £130
																																I. W. Windsor, £200
																																M.O. D. P. M. Farquharson, £100
																																I. W. Holt, £200
																																M.O. F. Prosser, £30
																																I. B. Smith (<i>b</i>)
																																M.O. H. Lawrie, £80
																																I. G. A. Shaw, £234
																																M.O. J. E. Helm, £240
																																I. W. E. Hoyle, £200
																																M.O. J. Barr, £66 13s. 4d
																																I. J. Cornall, £113
																																M.O. R. Young, £120
																																I. J. Butterfield, £20s
																																M.O. J. Tennant, £100
																																I. W. E. Procter, £270

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									Informal.	Statutory.			No. of Middens.	No. of Closets.						Privy Closets to Fresh W. C's.	Privy Closets to Waste W. C's.	Privy Closets to Pails, &c.	Pail Closets to Fresh W. C's.	Pail Closets to Waste W. C's.	Waste W. C's. to Fresh W. C's.					
Skelmersdale	5	1	55	..	55	..	713	1131	21	713	231	12	Half-cost of privies Whole-cost of pails	M.O. V. O'Reilly, £55 I. E. Huntington, £73	
Standish-with-Langtree	27	2	50	..	44	..	479	995	26	53	271	30	1	M.O. G. H. Ormsby, £55 I. A. Clough, £100	
Stretford	Yes	8	140	..	4	458	69	2355	1—Order made and owner to re-fund cost of work carried out (£241/17/10)	1	1	182	1691	13645	7556	331	8	£5 per closet	77	..	M.O. W. J. Heslop, £245 I. E. Nuttall, £420	
Swinton and Pendlebury	Yes	17	24	384	302	565	..	769	1359	67	301	5233	4748	79	3	..	4	..	M.O. W. S. Stalker, £300 I. A. Bleakley, £260	
Thornton	50	30	23	15	38	..	76	76	285	184	805	860	21	1	6	4	..	M.O. F. S. Rhodes, £100 I. H. Fenton, £100	
Tottington	51	7	113	..	532	1064	194	199	471	302	134	2	Half-cost of pedestal and cistern	6	..	M.O. G. Bailey, £60 I. L. Kenyon, £168	
Trawden	85	..	When required	..	3	..	3	316	325	112	62	233	5	2	5	M.O. G. Skeen, £20 I. J. H. Tatham, £52	
Turton	160	2	125	6	113	..	816	816	78	816	772	148	1154	6	Half-cost	60	..	M.O. J. Robinson, £80 I. A. McMorine, £225	
Tyldesley-with-Shakerley	21	6	190	17	247	..	207	495	9	933	2073	670	582	5	Half-cost	8	..	M.O. A. J. Lowe, (B. Blake- more to 31st Aug., 1919) £100 I. J. Smith, £254 18s.	
Ulvorston	19	..	When required	..	55	6	61	..	108	217	4	600	2011	1480	..	5	M.O. G. H. Patterson, £130 I. C. T. Hague, £120	
Upholland	41	4	17	22	67	..	532	820	25	90	197	9	..	12	Connection to sewer	M.O. F. H. Browne, £70 I. A. Hunt (b)	
Urmston	7	11	Yes	..	19	20	55	..	47	68	..	79	1954	1909	77	M.O. G. E. Fryer, £60 I. J. Heath, £140	
Walton-le-Dale	45	1	568	30	200	..	130	259	961	822	1270	1680	327	16	..	2	6	Half-cost	M.O. C. J. Trimble, £200 I. N. Barou, £156
Wardle	51	19	12	31	1 Conviction	120	205	238	..	331	356	108	9	Connection to sewer	M.O. G. MacGill, £40 I. J. D. Hurst, £140
Waterloo-with-Seaforth	19	..	Yes	2	710	286	2097	29 Ashbins supplied by Council in default of compliance with notices	10	1184	10112	4812	6	M.O. V. J. Glover, £130 I. J. H. Cannell, £300
Westhoughton	84	77	5	82	..	2142	2142	2	294	836	345	117	Half-cost	M.O. W. H. Leigh, £80 I. F. J. A. Green, £240
Whitefield	9	17	Yes	1	43	1	124	..	401	660	68	214	726	435	164	4	1	5	M.O. A. J. Young, £60 I. C. Whiteley (E. Shaw to 31st July, 1919) £265
Whitworth	20	40	24	..	214	1444	649	276	682	200	21	Each case considered	M.O. T. J. L. Forbes, £80 I. J. J. Cordingley, £195

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Widnes (B.)	Yes	5	5	51	Yes	..	615	33	1574	..	550	550	..	300	4461	5655	1494	20	2	Half-cost	M.O. A. Jones, £384 I. W. Lowe, £250		
Withnell	26	6	20	..	20	..	22	42	571	350	150	210	50	4	..	M.O. S. W. Maclean, £33 6s. 8d. I. A. Penney, £70		
Worsley	..	48	9	..	22	2	86	26	242	..	2125	2125	4	468	1371	904	50	16	..	M.O. R. Sayers, £92 I. J. Willcock, £250			
TOTAL URBAN DISTRICTS	30	284	36	12	3217	1375	29	18	17121	4971	34442	8	29957	43321	41513	76292	188865	154764	85935	439	15	18	158	35	62	..	970	..			
RURAL.																															
Barton-upon-Irwell	23	31	120	100	207	..	450	500	200	50	1430	1000	12	23	27	..	M.O. D. W. Davidson, £80 I. R. G. Child, £170		
Blackburn	142	197	..	197	..	65	65 Tanks	1031	..	917	280	81	19	..	M.O. W. R. Pollard, £80 I. H. Eccleston, £200		
Burnley	..	1	450	1	When required	..	160	13	70	771	820	2400	604	1658	2580	3	1	M.O. H. J. Robinson, £150 I. J. Laycock, £190		
Bury	..	13	90	2	52	4	130	..	615	1284	185	261	520	232	101	10	8	M.O. J. W. Cook, £142 10s. I. H. Hurst, £142 10s.		
Chorley	120	113	30	412	..	3525	3525	328	50	445	500	35	M.O. J. A. Harris, £150 I. H. F. Froes, £288		
Clitheroe (Lanc. portion)	72	61	..	44	..	773	773	243	Not known	393	243	320	4	1	M.O. J. M. Postlethwaite, £65 I. W. H. Jackson, £104		
Fylde	280	11	87	13	89	..	1500	1812	140	501	654	517	16	1	M.O. C. Court, £90 I. J. Jolly, £180		
Garstang	..	25	48	2	30	..	30	..	482	479	875	564	354	489	14	3	M.O. B. C. Broomhall (R. H. W. Fisher to 31st March, 1919) £129 16s. I. J. Cook, £235		
Lancaster	..	16	1	..	94	2	153	29	217	..	662	940	193	313	629	89	14	3	1	M.O. W. Edmondson, £50 I. J. Littlefair, £220	
Leigh	..	16	121	1	90	21	200	..	900	1686	75	200	254	40	2	1	M.O. L. Tong, £100 I. J. Monks, £210	
Limehurst	95	4	162	7	160	..	162	298	435	375	131	24	570	23	M.O. G. F. Bowman, £50 I. H. H. Turner, £110	
Lunesdale	64	13	3	59	..	1255	1500	57	165	456	22	..	1	M.O. B. J. Acheson, £50 I. E. Ellis, £85	
Preston	..	6	416	..	When required	..	5	76	76	2—Orders made	2759	2759	931	..	417	1713	425	M.O. C. J. Trimble, £200 I. T. Ashcroft, £282	
Sefton	62	58	10	68	..	784	824	..	120	Not known	M.O. J. C. Bradshaw, £154 2s. 8d. I. F. Pool, £141 16s. 4d.	
Ulverston	143	..	When required	..	57	17	10	..	1508	2316	6	537	873	200	..	12	M.O. G. H. Patterson, £261 I. T. Hudson, £195	

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Warrington	2	1	..	53	2	85	56	272	..	621	621	1761	400	440	878	13	7	M.O. T. A. Murray, £200 I. F. W. Kerfoot, £175	
West Lancashire	4	47	1	65	7	62	..	3286	3286	407	991	688	80	30	4	..	6	M.O. G. E. Scholefield, £600 I. T. G. H. Hunter, £206 8s.	
Whiston	181	212	15	193	..	2029	2860	326	1050	824	50	18	2	Half-cost	15	J. Ainsworth, £182 ss.	
Wigan	10	78	1	35	4	19	..	600	916	81	172	91	M.O. T. U. Mercer, £200 I. H. Brown, £175	
TOTAL RURAL DISTRICTS	93	2	..	2588	64	3	..	1755	405	2515	2	21976	27215	8094	8149	10120	8015	4231	64	..	39	1	..	2	69	M.O. G. H. Ormsby, £96 I. P. Fairclough (H. Elliot to 31st July, 1919) £216	
TOTAL ADMINISTRA- TIVE COUNTY	30	377	38	12	5805	1439	32	18	18876	5376	36957	10	51933	70536	49607	84441	198985	162779	90166	503	15	57	159	35	64	..	1039	
																					518			194								

Nuisances.—The following statement, collated from the local health reports, refers to the work carried out in regard to the suppression of nuisances :—

	1919.	1918.
Number of nuisances abated ...	36,957	24,008
„ notices served ...	24,252	15,135

In 1917, nuisances abated amounted to 27,144, 33,180 in 1916, and 43,878 in 1915.

Closet Accommodation.—The figures below, which have been taken from district health reports, show approximately the number of each type of closet accommodation in the County area :—

Privy middens	...	...	...	...	51,933
„ closets	...	...	...	...	70,536
Pail closets	...	...	...	...	49,607
Water closets	...	...	...	...	198,985
Waste-water closets	...	...	...	...	90,166
Ashpits (excluding middens)	...	...	...	...	84,441
Portable receptacles	...	...	...	...	162,779

Conversions of privy closets and pail closets during 1919 and the four preceding years are shown below :—

	1919.	1918.	1917.	1916.	1915.
Privies converted to					
water closets	518	137	324	800	2856
Privies converted to					
pail closets	57	18	76	86	219
Pail closets converted					
to water closets	194	42	148	272	759

Table “ I,” here inserted, shows the position as regards closet accommodation of each sanitary district.

Canal Boats.—The number of canal boats inspected numbered 377 in 23 districts. Thirty-eight infringements of the Acts were noted.

Slaughter-houses. — Public Abattoirs.—The position in regard to the slaughtering of cattle remains practically

the same as last year. Owing to the Government requirement that cattle should be killed, as far as practicable, in a central slaughter-house, inspection of meat has been greatly facilitated. Many district Medical Officers of Health state that it is highly desirable that such centralised slaughtering should continue. During the war period it has been clearly demonstrated that slaughtering in small unsuitable premises, often situated in unsatisfactory surroundings, at the rear of butchers' shops, need not be revived.

PUBLIC ABATTOIRS.—There are public abattoirs in 12 districts, viz., the Boroughs of Accrington, Chorley, Clitheroe, Colne, Darwen and Lancaster, and the urban districts of Fleetwood, Great Harwood, Lytham, Newton-in-Makerfield, Oswaldtwistle and St. Annes-on-the-Sea. The erection of a public abattoir is stated to be "the chief sanitary requirement" of Denton, Haslingden (B.), Heywood (B.), Horwich, Morecambe (B.), Nelson (B.), and Withnell.

Food Inspection.—The following summary shows approximately the amount of unsound or diseased food seized and destroyed in the County area during the year under report :—

On account of tuberculosis.—1,321 carcasses, or parts of carcasses.

For other reasons.—36 carcasses of cows, 61 sheep, 11 pigs, 11 calves, 436 rabbits, 39 head of poultry, beef 6,176 lbs., veal 61 lbs., mutton 10,184 lbs., offal 11,793 lbs., pork 21 lbs., ham and bacon 6,451 lbs., fish 33,032 lbs., fruit and vegetables 7,800 lbs., eggs 4,048, tins of milk 265, and miscellaneous food 18,597 lbs.

In eight instances legal proceedings were instituted.

Little is said in the district health reports as to the action taken (if any) for securing a standard of suitability and cleanliness of premises where food is prepared or kept for sale for human consumption. The need of some form of

effective control over the storage and manufacture of food is obvious.

Dairies, Cowsheds, and Milkshops.—Table “I,” inserted opposite page lxxi., gives particulars regarding the number of cowkeepers, dairymen, and purveyors of milk in each sanitary district. The approximate totals for the whole Administrative County are :—

Number of cowkeepers	...	...	...	...	5,805 •
„ dairymen or purveyors of milk	...	...	...	...	1,439

Regulations under the Dairies, Cowsheds, and Milkshops Order, 1885, have been adopted in every County district, except Little Crosby where there are only two cowkeepers.

Reference is made in many reports to the unsatisfactory condition of cowsheds in respect of lighting and ventilation, the grooming of cattle, and general cleanliness.

Arrangements for the examination of cattle by veterinary surgeons have been made in 32 districts.

Bacteriological Examination of Milk.—From five districts 18 samples of milk were submitted for bacteriological examination; in two instances tubercle bacilli were found to be present.

Smoke Observations. — These observations in 1919 numbered 1,039, against 860, 1,264, 1,711, 1,965, and 2,857 in the preceding five years. Table “I,” page lxxi., shows the districts in which the observations were taken.

Scavenging and Refuse Removal.—The County report for the year 1914 gave brief details of the arrangements existing in each district for scavenging and refuse removal. Since then very few developments have taken place. The number of privy middens and privy closets is shown on page lxxi. In certain of the rural districts, where the removal of ashpit contents usually devolves on the occupiers of the houses, the Councils are urged by the Medical Officers of Health to institute some form of public scavenging.

REFUSE DESTRUCTORS.—Destructors have been provided in 30 districts, which are shown on Table “I.” The provision of refuse destructors is strongly urged by the Medical Officers of Health of Denton, Great Crosby, Newton-in-Makerfield, Norden, Orrell, and Rishton.

House Drainage, Sewerage, and Sewage Disposal.—A statement as to the character and sufficiency of the arrangements for the drainage, sewerage, and sewage disposal in all parts of the district is required by the Ministry of Health’s memorandum as to contents of district health reports to be included in each report.

In this County a large area comes under the jurisdiction of the Mersey and Irwell and the Ribble Watershed Committees as regards the means of sewage treatment and disposal.

The necessity of providing additional sewers, or extending the existing systems, is referred to in many reports; and probably the urgency of this provision will be accentuated in those districts where large housing schemes are contemplated. Reference is also made in certain districts to the polluted condition of streams.

The following areas or townships are reported by district Medical Officers of Health as being without proper drainage systems :—

Urban Districts.	Area Without Proper Drainage System.
Accrington (B.)	... Higher Baxenden.
Aspull	... Hindley Mill—4 cottages.
Atherton	... Small portions of outlying district.
Audenshaw...	... Hanover Street South and Stelfox Lane.
Brierfield	... Marsden Heights.
Chadderton	... About 600 acres in the outlying districts.
Chorley (B.)	... Outlying farms—“not possible to connect.”
Clitheroe (B.)	... Outlying agricultural land, beyond reach of present sewerage system.
Croston	... Drinkhouse Lane and Grape Lane.

Urban Districts.	Area Without Proper Drainage System.
Dalton-in-Furness....	Outlying dwellings.
Droylsden ...	... Portion of Greenside.
Eccles (B.) ...	... Eight houses at Westwoods and three at Barton Moss end of borough.
Failsworth ...	... A few isolated cottages in the fields.
Formby ...	... Freshfield and a part of Formby.
Great Crosby	... A small area.
Haslingden (B.)	... A few isolated places.
Haydock ...	... Two small areas containing 25 and 43 houses respectively.
Hindley ...	... Platt Bridge.
Horwich ...	... Factory Hill, Foxholes, &c.
Litherland ...	... About 50 per cent. agricultural land.
Little Hulton	... A number of areas in different parts of the district.
Little Lever	... Dove Bank and Leadbeater Fold.
Middleton (B.)	... Birch End and Bowlee.
Milnrow ...	... Burnedge.
Newton-in-Maker-	
field ...	... Parts of agricultural areas.
Norden ...	... Lanehead and Red Lumb (two small hamlets).
Orrell ...	... A few houses in Brook Lane and Ox-house Road.
Oswaldtwistle	... Knuzden and Cross Edge.
Poulton-le-Fylde	... Little Poulton.
Prestwich ...	... Simister Lane area.
Radcliffe ...	... About 93 houses in Starling district.
Royton ...	... Booth Hill Lane, Thorp, and Thorp Clough.
St. Annes-on-the-	
Sea ...	... Rural parts drain into cesspools.
Skelmersdale	... Small area which new sewerage scheme will include.

Urban Districts.		Area Without Proper Drainage System.
Standish-with-Lang-		
tree	... ..	Only scattered houses.
Swinton and Pendle-		
bury	... ..	Forty houses at Langley Road, Pendle-
		bury.
Thornton	... ..	Part of East Ward.
Tottington	... ..	Hawkshaw and Greenmount district.
Tyldesley-with-		
Shakerley	... ..	Thirty houses at Parr Brow.
Upholland	... ..	Roby Mill.
Urmston	... ..	Several isolated farms.
Walton-le-Dale	... ..	Outlying districts.
Whitefield	... ..	Park Lane—new scheme sanctioned by
		Ministry of Health.
Widnes (B.)	... ..	Rural area on the north—drainage in-
		sufficient for w.c. system.
Withnell	... ..	Ollerton Terrace.
Rural Districts.		
Barton-upon-Irwell.	Portions of Davyhulme, Flixton, and	
	Clifton.	
Burnley	... ..	Higham, Old Laund Booth, Foulridge
		(detached), and Cliviger.
Bury	... ..	The more rural parts of all the townships.
Chorley	... ..	Several townships.
Clitheroe	... ..	Aighton, Bailey and Chaigley, Little
		Bowland, Little Mitton, Chipping,
		Leagram, Pendleton, Downham, and
		Hurst Green.
Fylde	... ..	Treales, Wharles, and part of Warton.
Garstang	... ..	All townships except six.
Lancaster	... ..	Overton, Priest Hutton, Silverdale, Yea-
		land Conyers, and Yealand Redmayne.
Limehurst	... ..	Alt, Hartshead, Little Moss, and Wood-
		houses.

Rural Districts.	Area Without Proper Drainage System.
Lunesdale ...	... Over Kellet.
Preston ...	... Penwortham, Longton, Little Hoole, Goosnargh, Whittingham, Wood- plumpton, and Dutton.
Sefton ...	... Certain areas all over district.
Warrington	... Poulton-with-Fearnhead.
West Lancashire	... All except Aughton and parts of Bicker- staffe and Tarleton.
Whiston ...	... Cronton, Tarbock, Knowsley, Speke, and parts of others.
Wigan ...	... Wroughtington, Shevington, Parbold, Dalton, Worthington, and part of Haigh.

Water Supplies.—Very few developments are reported. Deficient or unsatisfactory water supplies are reported in a number of districts, principally rural areas, for instance:—Clitheroe (R.), the smaller hamlets and many farms have a supply which is neither good nor accessible; Chorley (R.), there has been a great shortage of water in Coppull for some years; Fylde (R.), insufficient supply at Treales and Wharles; Preston (R.), inadequate supply to the townships of Woodplumpton, Lea, and Cottam; Whiston (R.), outlying parts have to rely on surface wells liable to serious contamination.

In July, 1919, a report on the presence of lead in the public water supplies of Standish-with-Langtree, and the township of Shevington in the Wigan rural district, was presented by the County Medical Officer of Health to the County Public Health and Housing Committee, and certain recommendations were forwarded to the local Health Authorities concerned.

WATER POWER RESOURCES COMMITTEE.—In October, 1919, the terms of reference of a Committee with the above title, which had been appointed in June, 1918, to examine and report upon the Water Power Resources of the United Kingdom, were extended to include “ what steps should be

taken to ensure that the water resources of the country are properly conserved and fully and systematically used for all purposes.”

In their second Interim Report (June, 1920) the Committee make certain recommendations of interest to Public Health Authorities, for instance :—

There should be established a controlling Water Commission having jurisdiction over England and Wales, and upon whom should be conferred certain statutory powers and duties, among the principal of which should be :—

The compilation of proper records of the water resources and present and future water requirements of the country ;

The allocation of these water resources in the general interests of the community, and powers to re-adjust existing allocations of water where hardship or anomalies are clearly shown to exist ;

To consider the development of rivers as a whole from source to mouth from the point of view of water interests, and when necessary to initiate legislation for securing such development, &c.

Shops Acts, 1912 and 1913.—The Order of H.M. Secretary of State, under the Defence of the Realm (Consolidation) Regulations, which fixed the hours of closing of shops, continued in force throughout the year 1919.

Three applications for Orders under the Shops Act, 1912, were dealt with by the County Inspector (Mr. J. E. Gee, of the County Public Health Department). In two instances Half-holiday Closing Orders were made by the County Council, but were not confirmed by the Secretary of State until June, 1920. In the other case it was not necessary to make an order, as the advantages sought under the application were obtained under the existing Defence of the Realm Regulations.

Sixteen infringements of the Shops Acts, or Orders made thereunder, were dealt with during the year ; in each instance cautions were administered.

Midwives Acts 1902 and 1918.—The number of certified midwives on the Register of the Administrative County on the 31st December, 1919, was 687.

During the year the names of 50 women were removed from the Register for the following reasons :—death 12, left County area 10, ceased to practise 28. The names of 68 midwives commencing to practise were added.

The tabular statement below shows the qualifications of the women on the Register :—

Obstetrical Society of London	...	...	33
Coombe Lying-in Hospital and Guinness'			
Dispensary, Dublin	...	...	2
Rotunda Hospital, Dublin	...	...	1
Liverpool Ladies' Charity and Lying-in			
Hospital	...	...	20
St. Mary's Hospitals, Manchester	...	...	27
Certificate (by examination) of Central			
Midwives Board	...	...	308
In <i>bonâ-fide</i> practice, July, 1901	...	...	296
Total			687

Of these, 633 were practising, while 54 had temporarily ceased to act.

In the year 1905 there were 876 of the *bonâ-fide* type of midwife on the County Register, 83 per cent. of the total, but these have now been reduced to 296, or 43 per cent.

The number of certified midwives, with addresses within the Administrative County area on the Official Roll of the Central Midwives Board, is 1,928.

RECORDS FROM MIDWIVES.—The statement below shows the number of records of sending for medical help received during 1919, the number of still-births reported, and the number of deaths of mother or child before the attendance of a medical practitioner :—

MEDICAL HELP RECORDS :—

(1) In all cases in which a woman during pregnancy, labour, or lying-in, appears to be dying or is dead						—
(2) Pregnancy—						
Deformity or stunted growth	...	...	...	...	...	1
Loss of blood	...	...	...	...	...	34
Abortion or threatened abortion	...	...	...	...	...	139
Excessive sickness	...	...	...	...	...	4
Puffiness of hands or face	...	...	...	...	...	3
Fits or convulsions	...	...	...	...	...	1
Dangerous varicose veins	...	...	...	...	...	5
Purulent discharge	...	...	...	...	...	4
Sores of the genitals	...	...	...	...	...	—
Other abnormalities or complications	...	...	...	...	...	38
(3) Labour—						
Fits or convulsions	...	...	...	...	...	12
A purulent discharge	...	...	...	...	...	2
Sores of the genitals	...	...	...	...	...	—
A malpresentation	...	...	...	...	...	174
Presentation other than the uncomplicated head or breech	...	...	...	...	...
Where no presentation can be made out	...	...	...	...	...	2
Where there is excessive bleeding	...	...	...	...	...	56
Where two hours after the birth of the child the placenta and membranes have not been completely expelled	...	...	...	...	...	112
In cases of serious rupture of the perinæum or of other injuries of the soft parts	...	...	...	...	...	487
Other complications, including obstructed labour, uterine inertia, or requiring instrumental assistance	...	...	...	...	...	853

(4) Lying-in—

Fits and convulsions	...	...	...	—
Abdominal swelling and tenderness	...	...	...	2
Offensive lochia, if persistent	...	...	...	—
Rigor with raised temperature	...	...	...	6
Rise of temperature above 100·4°F. with quickening of the pulse for more than 24 hours	...	...	...	105
Unusual swelling of the breasts with local tenderness or pain	...	...	...	1
Secondary post-partum hæmorrhage	...	...	...	8
White leg	...	...	...	—
Unsatisfactory progress or complications...	...	...	...	36

(5) The Child—

Injuries received during birth	...	...	...	6
Any malformation or deformity endangering the child's life	...	...	...	21
Dangerous feebleness	...	...	...	232
Inflammation of, or discharge from, the eyes, however slight	...	...	...	299
Serious skin eruptions, especially those marked by the formation of watery blisters	...	...	...	9
Inflammation about, or hæmorrhage from, the navel	...	...	...	2
Complications	...	...	...	125
Total	...	...	...	2779

STILL-BIRTHS :—

Males	...	...	...	...	196
Females	...	...	...	...	185
Total	...	...	...	...	381

DEATHS OF MOTHER OR CHILD BEFORE ATTENDANCE OF A
MEDICAL PRACTITIONER :—

Mother	...	...	...	...	...	6
Child	...	...	...	...	...	52
						—
Total	...	...	...	...	...	58

The following table compares the number of Records, &c., received from certified midwives during the year 1919, with preceding years :—

	1919.	1918.	1917.	1916.	1915.
Records of sending for medical help ...	2779	2078	2271	2502	2391
Still-births ... Male	196	163	201	229	225
... Female	185	142	160	168	167
Deaths of Mother or Child before the attendance of a medical practitioner ...	6	4	5	4	10
... Mother ...	52	41	37	44	25
... Child					

PUERPERAL FEVER.—The number of cases of “ puerperal fever ” reported during 1919, in connection with the administration of the Midwives Act, was 75.*

* After the end of the year, in the preparation of the Annual Report statistics, 3 additional cases were found, making a total of 78, as shown on notification table, page lxi.

The table below contrasts 1919 with the preceding four years :—

	Cases.	Deaths.	Case Mortality	Attack Rate per 1,000 births.
1919.....	75 ...	*33 ...	42·8	2·60
1918.....	49 ...	†22 ...	44·0	1·80
1917.....	59 ...	17 ...	28·8	2·07
1916.....	94 ...	‡26 ...	27·3	2·87
1915.....	93 ...	31 ...	33·3	2·68

* Includes 2 deaths of cases notified in previous year.

† Includes death of a case not notified.

‡ Includes death of a case notified in previous year.

The preceding mortality totals do not coincide with the above deaths classified by the Registrar-General under the term "puerperal fever," which in 1919 aggregated 57. This apparent discrepancy is due to the fact that the Registrar-General in his statistics assigns to the term "puerperal fever" certain forms of disease of the puerperal state, which are not usually reported by medical practitioners under the Notification Act.

In the following statement, the notified cases of puerperal fever are classified, distinguishing those in which midwives were concerned :—

	1919.			1918.		
	Cases.	Deaths.	Mortality rate per cent.	Cases.	Deaths.	Mortality rate per cent.
Cases attended at child-birth solely by certified midwives	37	.. *16	.. 42·1	22	.. 9	.. 40·9
Cases in which midwives acted as nurses under the supervision of medical practitioners	14	.. 6	.. 42·8	13	.. 6	.. 46·1
Cases in which certified midwives were not in attendance	24	.. *11	.. 44·0	14	.. †7	.. 46·6

* Includes death of case notified in previous year.

† Includes death of a case not notified.

The cases which occurred in the practice of midwives were carefully investigated. In addition, enquiries were made into 111 cases of rise of temperature or rigor.

CHARGES OF NEGLIGENCE, MISCONDUCT, &c.—Fifty-one charges of negligence or misconduct were preferred against midwives during the year, against 31 in the previous year. The action taken is shown in the table on the following page. In addition, a number of minor breaches of the Rules came under notice and were suitably dealt with.

	Total No. of charges.	Result of action taken.			
		Struck off the Roll.	Sur- rendered Certifi- cate and name removed from Roll.	Severely cen- sured.	Cau- tioned.
Puerperal fever cases ...	11	...	...	2	9
Ophthalmia neonatorum cases... ...	37	...	...	5	32
Other offences ...	3	...	...	2	1

OPHTHALMIA NEONATORUM.—By notifications under the Public Health (Ophthalmia Neonatorum) Regulations, and by medical help records forwarded by midwives, 447 cases of ophthalmia neonatorum, or inflammation of the eyes, came under notice, against 317 cases in the previous year. All cases occurring in the practice of midwives were investigated. In 37 instances, as shown above, the midwives had been so negligent as to necessitate a report of their conduct to the Midwives Act Committee.

MIDWIVES ACT, 1918.—This Act came into operation on the 1st January, 1919.

Section 14 provides for the payment by the Local Supervising Authority of fees (according to a scale fixed by the Local Government Board) of medical practitioners summoned in cases of emergency by certified midwives. The Local Supervising Authority is empowered to recover such fee from the patient, or her husband, or other person liable to maintain her, unless it is shown that such person is unable by reason of poverty to pay such fee.

Seventy-five such claims for payment were received from medical practitioners during the year, the amount involved being £136 8s. 6d. A portion of this amount has been recovered.

By Section 7 the Local Supervising Authority is required to supply to certified midwives all forms and books which they must fill up or use in their practice, and the whole of the midwives practising in the County area were supplied by the County Public Health Department with the following :—

Register of cases.

Daily record of pulse and temperature.

Forms of sending for medical help.

Forms of notification of still-birth.

„	„	death of mother or child.
„	„	having laid out a dead body.
„	„	liability to be a source of infection.
„	„	whenever it is proposed to substitute artificial feeding for breast feeding.

A supply of envelopes to be used in sending the copy records to the County Offices, Preston.

At the end of the year the midwives were refunded the sum incurred by them in postage.

Under Section 6, two applications from midwives for compensation for loss of practice, owing to suspension in order to prevent the spread of infection, were dealt with.

TRAINING OF MIDWIVES.—On the 30th September, 1919, the Ministry of Health issued to all Supervising Authorities under the Midwives Acts a circular (No. 10) with reference to the training of midwives and grants in aid of such training. These grants will be made under “The Board of Education (Midwives’ Training) Regulations, 1919,” in aid of the training

of intending and practising midwives at recognised residential Institutions.

Sale of Food and Drugs Acts.—The County Analyst (Mr. Collingwood Williams, B.Sc., F.I.C.), in his report for the year 1919 to the Public Health and Housing Committee, states that 4,848 samples have been submitted for analysis during the year, of which 4,530 were from the County Police, 317 from Local Authorities, and 1 from a private purchaser.

Of the samples submitted by the Police, 562 were adulterated or not up to standard, being 12·40 per cent. of the number taken, as compared with 13·29 per cent. in 1918. The percentage of adulterated samples varies from 6·3 per cent. in the Blackburn Higher Division to 21·4 per cent. in the Lonsdale South Division.

Of the samples submitted by Local Authorities, 46, or 14·51 per cent. were reported against.

The greater proportion of the above cases were of too slight a character to justify legal proceedings, the percentage of serious cases being only 5·16 per cent., as compared with 6·03 per cent. in 1918.

MILK.—Three thousand and fourteen samples (62·2 per cent. of the total samples taken) were purchased as milk or skimmed milk, 1 as “diluted milk,” and 1 was described as “swill.”

The number of adulterated, deficient, or dirty samples was 508, or 16·85 per cent., as compared with 16·05 per cent. in 1918.

The character of the adulteration in the condemned samples was as follows:—

Nature of Adulteration.	Percentage of samples analysed.	
	1919.	1918.
Added water exceeding 4% ...	2.55	4.10
Do. less than 4% ...	3.55	4.04
	6.10	8.14
Fat deficiency exceeding 10% ...	2.32	1.62
Do. less than 10 % ...	3.81	2.50
	6.13	4.12
Cowdung exceeding 5 parts by volume per 100,000 ...	1.89	1.31
Do. exceeding 2 parts, but not exceeding 5 ...	4.21	3.40
	6.10	4.71
Dirt other than cowdung ...	0.06	0.03
Formaldehyde preservative ...	0.13	0.03

The seriously watered milks show a large decrease in numbers as compared with 1918, which was, however, an exceptionally bad year for watered milks.

44 samples contained from 4 to 10% added water,
 30 samples contained from 10 to 20% added water,
 and 3 samples contained 33, 33, and 38% added water
 respectively.

The more serious cases of fat deficiency show an increase as compared with 1918, which was, however, one of the best years in recent times in this respect.

43 samples showed a deficiency from 10 to 15%,
 20 samples showed a deficiency from 15 to 30%,
 6 samples showed a deficiency from 30 to 45%,
 and 1 sample showed a deficiency of 88%.

Both as regards added water and fat deficiency, the present year's figures are about the average of the past eight years.

All the milk samples have been examined for cowdung and other dirt. The total number of samples contaminated with cowdung is greater than in 1918. This applies particularly to amounts under 7 parts by volume per 100,000, samples dirtier than this being distinctly less frequent than was the case last year. The very dirty samples met with some years ago seldom occur now.

The average composition of the milk purchased for analysis in the County for the past three years is shown in the following table :—

Month.				% Fat.			% Non-fatty Solids.		
				1917.	1918.	1919.	1917.	1918.	1919.
January	...	...	...	3.74	3.72	3.60	8.87	8.92	8.81
February	...	...	...	3.77	3.64	3.66	8.72	8.87	8.91
March	...	...	...	3.53	3.60	3.59	8.70	8.85	8.91
April...	...	...	...	3.67	3.61	3.62	8.63	8.83	8.92
May	...	...	...	3.69	3.53	3.41	8.69	8.87	8.94
June	...	...	...	3.54	3.51	3.39	8.83	8.87	8.85
July	...	...	...	3.63	3.54	3.58	8.69	8.77	8.86
August	...	...	...	3.62	3.69	3.61	8.77	8.86	8.67
September	...	...	...	3.83	3.78	3.84	8.86	8.88	8.94
October	...	...	...	3.81	3.90	3.88	9.06	8.75	8.98
November	...	...	...	3.85	3.90	3.89	8.91	8.84	9.07
December	...	...	...	3.72	3.64	3.62	8.93	8.83	8.96
Annual Average	3.71	3.67	3.65	8.81	8.84	8.91
No. of Samples	2869	3396	2993	2869	3396	2993

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TABLE J.—GIVING DETAILS OF THE SAMPLES TAKEN IN THE ADMINISTRATIVE COUNTY
DURING 1919.

DIVISION.	Milk.		Margarine.		Lard.		Spices and Condiments		Beer and Stout.		Other Articles of Food.		Drugs.		Totals.		Percentage of Adulterated Samples.
	*	†	*	†	*	†	*	†	*	†	*	†	*	†	*	†	
Lonsdale North	36	13	8	1	13	...	11	...	7	1	45	1	0	...	120	16	13·3
Lonsdale South	52	22	1	...	1	...	13	...	0	...	43	2	2	...	112	24	21·4
Garstang	52	8	0	...	5	...	14	...	0	...	15	...	0	...	86	8	9·3
Kirkham	96	17	0	...	0	...	22	...	0	...	54	3	12	1	184	21	11·4
Blackburn Lower	144	24	0	...	0	...	16	2	3	1	48	4	0	...	211	31	14·7
Blackburn Higher	124	17	0	...	18	...	57	2	0	...	108	1	11	...	318	20	6·3
Church	108	17	3	...	4	1	14	...	7	...	35	1	5	...	176	19	10·8
Rossendale	135	11	0	...	0	...	0	...	0	...	0	...	0	...	135	11	8·1
Leyland	132	13	22	...	22	...	22	...	0	...	83	8	6	...	287	21	7·3
Bolton	200	21	2	...	30	...	36	...	1	...	28	...	0	...	297	21	7·0
Bury	188	27	0	...	9	...	25	1	0	...	49	...	0	...	271	28	10·3
Roehdale	244	59	37	...	33	...	17	2	5	4	44	...	0	...	380	65	17·1
Ashton-under-Lyne	170	23	9	...	3	...	11	1	11	7	26	1	2	...	232	32	13·8
Manchester	406	75	4	...	5	...	50	3	20	7	78	1	13	4	576	90	15·6
Seaforth	151	32	0	...	0	...	0	...	0	...	0	...	0	...	151	32	21·2
Ormskirk	62	14	4	...	2	...	25	2	2	...	33	1	0	...	128	17	13·2
Prescot	41	6	1	...	3	...	13	1	0	...	33	1	9	...	100	8	8·0
Widnes	36	4	10	...	6	...	20	...	9	1	38	3	0	...	119	8	6·7
Warrington	213	30	7	...	6	...	7	...	50	13	9	...	0	...	292	43	14·7
Wigan	157	31	6	...	1	...	36	3	0	...	155	13	0	...	355	47	13·2
County Police	2747	464	114	1	161	1	409	17	115	34	924	40	60	5	4530	562	12·40
Local Authorities	268	43	5	...	0	...	22	2	0	...	18	1	4	...	317	46	14·51
Other Purchasers	1	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...
Totals	3016	508	119	1	161	1	431	19	115	34	942	41	64	5	4848	609	...
							(a)				(b)		(c)				
Percentage of Adulteration.....	16·84		0·84		0·62		4·40		29·56		4·35		7·81		12·56		...

* No. of Samples. † No. Adulterated.

‡ Includes 1 sample sold as "Diluted Milk," and 1 sample of "Swill."

The 317 samples taken by Local Authorities include—Boroughs of Darwen 18, Middleton 74, and Nelson 30; Urban District Councils of Chadderton 27, Horwich 20, Lytham 12, St. Annes-on-the-Sea 12, Stretford 79, and Westhoughton 45.

- (a) Allspice 1, Cayenne 5, Ginger 163, Ground Nutmeg 1, Mixed Spice 2, Mustard 36, Pepper 206, Pudding Spice 4, Sauce 1, Vinegar 12; *total* 431.
- (b) Arrowroot 34, Baked Beans (with Pork and Tomato Sauce) 2, Baking Powder 88, Beef and Malt Wine 1, Bread 1, Butter 18, Cake and Bun Flour 14, Carbonate of Soda 8, Caraway Seeds 1, Cheese 22, Cocoa 66; Cocoa, Sugar and Milk 1; Coffee 216, Coffee and Condensed Milk 1; Coffee, Sugar and Milk 1; Condensed Milk Cocoa 3, Cornflour 13, Cream of Tartar 44, Crushed Linseed 4, Custard and Pudding Powder 51, Dripping 1, Egg Powder 20, Flour 14, Ground Almonds 24, Ground Rice 35, Jam 6, Jelly 1, Lemon Cheese 2, Lobster Paste 2, Marmalade 4, Oatmeal 20, Olive Oil 3, Pearl Barley 22, Potted Meats 8, Raw Beef 3, Rice 36, Rice Flour 1, Sago 12, Sarsaparilla Wine 1, Sausages 2, Savoury Paste 2, Self-raising Flour 26, Shrimp and Salmon Paste 2, Soup Powder 4, Sugar 2, Sugar Substitute 1, Sweets 8, Syrup 1, Tapioca 10, Tartaric Acid 5, Tea 58, Tea, Sugar and Milk 1; Tinned Fish 1, Tinned Milk 4, Tinned Tongue 1, Treacle 1, Whiskey 2, Yeast 7; *total* 942.
- (c) Alum 1, Balsam of Linseed 1, Boracic Acid 2, Borax 1, Carbonate of Magnesia 1, Castor Oil 2, Chlorate of Potash Lozenges 1, Comfrey Leaves and Root 3, Epsom Salts 33, Friar's Balsam 1, Glycerine 2, Gregory Powder 2, Health Salts 1, Liquorice Powder 7, Liver Salts 2, Magnesia 1, Quinine 1, Vaseline 1, Zinc Ointment 1; *total* 64.

TABLE K.—SHOWING THE NUMBER OF PROSECUTIONS TAKEN IN THE ADMINISTRATIVE COUNTY UNDER THE SALE OF FOOD AND DRUGS ACTS, MILK (WINTER PRICES) ORDER, AND BEER (PRICES AND DESCRIPTION) ORDERS, ARISING, OUT OF SAMPLES PURCHASED DURING THE YEAR 1919.

DIVISION.	Number of Prosecutions.	Number Convicted or Ordered to Pay Costs.	Number Withdrawn.	Number of Dismissals.		Fines and Costs.
				On Warrant.	For other Reasons.	
						£ s. d.
Lonsdale North	2	...	...	...	2	...
Lonsdale South	0	...	..	...	...	...
Garstang	0	...	...	...	...	...
Kirkham	0	...	...	..	...	...
Blackburn Lower.....	8	7	1	..	...	87 14 10
Blackburn Higher	0	...	...	...	..	...
Church	1	1	...	...	...	4 16 0
Rossendale	0	...	...	...	...	...
Leyland	2	2	...	...	...	11 6 5
Bolton	4	4	..	...	...	19 17 0
Bury	6	6	...	...	...	28 19 9
Rochdale	24	21	1	...	2	145 1 6
Ashton-under-Lyne.....	8	7	...	...	1	25 0 0
Manchester	22	15	3	1	3	74 15 6
Seaforth	7	6	...	...	1	26 18 6
Ormskirk	4	4	...	...	...	30 14 7
Prescot	2	2	...	...	...	2 15 6
Widnes	1	1	...	...	...	1 2 2
Warrington	17	14	1	...	2	137 17 0
Wigan	9	8	...	...	1	46 3 10
County Police	117	98	6	1	12	643 2 7
Local Authorities.....	9	8	...	...	1	18 17 8
Totals	126	106	6	1	13	662 0 3

As usual, this table illustrates the fact that the average quality of the milks taken for analysis is throughout the year much above the statutory limits of 3·0 per cent. fat and 8·5 per cent. non-fatty solids, in spite of the inclusion of many adulterated samples.

Table “ J ” appended gives details of the articles analysed and the number of adulterations.

Prosecutions numbered 126, and the total amount of fines and penalties was £662 0s. 3d. Details are shown on Table “ K.” In the year 1918 there were 151 prosecutions, and the fines, &c., amounted to £902 9s. 7½d.



ADMINISTRATIVE COUNTY OF LANCASTER.

BIRTH AND DEATH RATES
OF THE
URBAN AND RURAL DISTRICTS

FOR THE YEAR 1919,

COMPARED WITH THE RATES FOR THE YEAR 1918, AND WITH
THE MEAN OF THE 10 YEARS 1909-1918.

URBAN DISTRICTS.

Abram.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate	
1919.....	21·8	15·2	0·16	0·96	91
1918.....	24·1	16·2	1·69	1·01	112
Mean of 10 years					
1909-1918	27·1	14·7	2·17	0·71	126
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—2·3	—1·0	—1·53	—0·05	—21
<i>Ten Years' Average</i>	—5·3	+0·5	—2·01	+0·25	—35

Accrington (Borough).—

1919.....	14·0	15·4	0·48	0·66	114
1918.....	13·6	15·0	0·57	1·05	93
Mean of 10 years					
1909-1918	17·4	13·9	0·95	0·89	110
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0·4	+0·4	—0·09	—0·39	+21
<i>Ten Years' Average</i>	—3·4	+1·5	—0·47	—0·23	+4

Adlington.—

1919.....	24·1	10·9	0·47	0·71	47
1918.....	17·2	13·2	0·79	1·05	63
Mean of 10 years					
1909-1918	21·3	11·6	0·91	0·81	79
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+6·9	—2·3	—0·32	—0·34	—21
<i>Ten Years' Average</i>	+2·8	—0·7	—0·44	—0·10	—32

Ashton-in-Makerfield.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	23·0	13·4	0·84	0·98	103
1918.....	24·2	17·6	2·83	0·48	106
Mean of 10 years					
1909-1918	28·4	14·7	2·42	0·67	126
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1·2	—4·2	—1·99	+0·50	—3
<i>Ten Years' Average</i>	—5·4	—1·3	—1·58	+0·31	—23

Ashton-under-Lyne (Borough).—

1919.....	18·0	17·1	0·41	0·96	119
1918.....	16·3	20·0	0·83	1·66	121
Mean of 10 years					
1909-1918	21·0	17·5	1·82	1·42	148
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1·7	—2·9	—0·42	—0·70	—2
<i>Ten Years' Average</i>	—3·0	—0·4	—1·41	—0·46	—29

Aspull.—

1919.....	24·8	15·6	1·09	0·96	132
1918.....	20·9	23·5	2·51	0·97	148
Mean of 10 years					
1909-1918	28·5	16·5	2·90	0·78	141
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3·9	—7·9	—1·42	—0·01	—16
<i>Ten Years' Average</i>	—3·7	—0·9	—1·81	+0·18	—9

Atherton.—

	PER OF 1,000 POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	18.2	12.4	1.22	0.56	85
1918.....	19.3	17.9	2.54	0.84	138
Mean of 10 years					
1909-1918	24.5	14.0	1.90	0.93	128
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.1	—5.5	—1.32	—0.28	—53
<i>Ten Years' Average</i>	—6.3	—1.6	—0.68	—0.37	—43

Audenshaw.—

1919.....	16.8	12.2	0.25	0.50	115
1918.....	16.1	14.2	0.41	0.54	106
Mean of 10 years					
1909-1918	20.3	13.7	1.22	0.74	130
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.7	—2.0	—0.16	—0.04	+9
<i>Ten Years' Average</i>	—3.5	—1.5	—0.97	—0.24	—15

Bacup (Borough).—

1919.....	13.1	14.1	0.19	0.44	101
1918.....	13.1	20.4	1.43	0.95	147
Mean of 10 years					
1909-1918	17.4	16.7	0.96	0.88	114
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	nil.	—6.3	—1.24	—0.51	—46
<i>Ten Years' Average</i>	—4.3	—2.6	—0.77	—0.44	—13

Barrowford.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	10·9	12·9	0·55	0·36	80
1918.....	9·2	15·0	1·41	0·81	58
Mean of 10 years					
1909-1918	17·2	12·5	1·09	0·77	97
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1·7	—2·1	—0·86	—0·45	+22
<i>Ten Years' Average</i>	—6·3	+0·4	—0·54	—0·41	—17

Billinge.—

1919.....	18·3	13·1	0·43	1·09	57
1918.....	24·7	17·6	0·68	1·37	90
Mean of 10 years					
1909-1918	26·3	14·3	1·47	0·74	110
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—6·4	—4·5	—0·25	—0·28	—33
<i>Ten Years' Average</i>	—8·0	—1·2	—1·04	+0·35	—53

Blackrod.—

1919.....	18·7	16·1	0·51	1·54	144
1918.....	20·5	20·7	1·47	0·88	128
Mean of 10 years					
1909-1918	23·9	13·8	1·65	0·58	119
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1·8	—4·6	—0·96	+0·66	+16
<i>Ten Years' Average</i>	—5·2	+2·3	—1·14	+0·96	+25

Brierfield.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	11.5	11.3	0.11	1.06	79
1918.....	11.7	16.4	1.02	1.02	55
Mean of 10 years 1909-1918	17.4	13.0	1.17	1.01	106
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.2	—5.1	—0.91	+0.04	+24
<i>Ten Years' Average</i>	—5.9	—1.7	—1.06	+0.05	—27

Carnforth.—

1919.....	15.9	12.5	0.31	nil.	132
1918.....	18.4	16.2	1.69	1.69	65
Mean of 10 years 1909-1918	21.4	11.8	0.67	0.64	73
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—2.5	—3.7	—1.38	—1.69	+67
<i>Ten Years' Average</i>	—5.5	+0.7	—0.36	—0.64	+59

Chadderton.—

1919.....	13.3	13.9	0.35	0.45	126
1918.....	15.7	20.6	0.99	1.31	117
Mean of 10 years 1909-1918	22.6	15.9	1.50	1.08	115
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—2.4	—6.7	—0.64	—0.86	+9
<i>Ten Years' Average</i>	—9.3	—2.0	—1.15	—0.63	+11

Chorley (Borough).—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	16.1	12.8	0.60	0.50	92
1918.....	13.1	18.6	0.81	0.94	108
Mean of 10 years					
1909-1918	21.4	15.4	1.43	0.96	130
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.0	—5.8	—0.21	—0.44	—16
<i>Ten Years' Average</i>	—5.3	—2.6	—0.83	—0.46	—38

Church.—

1919.....	18.8	14.8	nil.	0.46	149
1918.....	15.2	15.7	0.66	1.66	116
Mean of 10 years					
1909-1918	19.1	15.3	0.94	0.93	124
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.6	—0.9	—0.66	—1.20	+33
<i>Ten Years' Average</i>	—0.3	—0.5	—0.94	—0.47	+25

Clayton-le-Moors.—

1919.....	16.3	13.6	0.23	0.59	159
1918.....	14.4	14.9	0.71	1.07	140
Mean of 10 years					
1909-1918	20.8	14.6	1.20	0.77	129
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.9	—1.3	—0.48	—0.48	+19
<i>Ten Years' Average</i>	—4.5	—1.0	—0.97	—0.18	+30

Clitheroe (Borough).—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	14.1	13.6	0.16	0.58	107
1918.....	13.3	17.0	0.27	1.57	86
Mean of 10 years 1909-1918	18.2	14.0	0.76	1.10	97
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.8	—3.4	—0.11	—0.99	+21
<i>Ten Years' Average</i>	—4.1	—0.4	—0.60	—0.52	+10

Colne (Borough).—

1919.....	11.2	12.0	0.34	1.12	121
1918.....	11.8	16.6	0.98	0.84	91
Mean of 10 years 1909-1918	17.2	13.9	1.28	0.91	122
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.6	—4.6	—0.64	+0.28	+30
<i>Ten Years' Average</i>	—6.0	—1.9	—0.94	+0.21	—1

Crompton.—

1919.....	12.2	12.3	0.47	0.80	105
1918.....	12.8	20.9	0.59	1.42	166
Mean of 10 years 1909-1918	19.6	15.8	1.18	0.97	130
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.6	—8.6	—0.12	—0.62	—61
<i>Ten Years' Average</i>	—7.4	—3.5	—0.71	—0.17	—25

Croston.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	9.6	14.2	0.52	0.52	52
1918.....	9.5	17.4	0.56	0.56	nil.
Mean of 10 years					
1909-1918	16.4	12.1	0.83	0.58	66
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.1	—3.2	—0.04	—0.04	+52
<i>Ten Years' Average</i>	—6.8	+2.1	—0.31	—0.06	—14

Dalton-in-Furness.—

1919.....	23.9	14.0	0.23	1.16	77
1918.....	25.1	20.4	1.10	1.32	125
Mean of 10 years					
1909-1918	25.1	15.3	1.12	1.26	105
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.2	—6.4	—0.87	—0.16	—48
<i>Ten Years' Average</i>	—1.2	—1.3	—0.89	—0.10	—28

Darwen (Borough).—

1919.....	12.6	13.8	0.18	0.58	115
1918.....	9.5	21.0	0.51	0.97	73
Mean of 10 years					
1909-1918	16.0	15.0	0.91	0.79	114
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.1	—7.2	—0.33	—0.39	+42
<i>Ten Years' Average</i>	—3.4	—1.2	—0.73	—0.21	+1

Denton.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	16.4	11.9	0.23	0.40	81
1918.....	14.4	16.4	0.84	1.09	67
Mean of 10 years 1909-1918	20.3	14.3	1.00	0.90	117
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.0	—4.5	—0.61	—0.69	+14
<i>Ten Years' Average</i>	—3.9	—2.4	—0.77	—0.50	—36

Droylsden.—

1919.....	17.8	13.9	0.30	1.21	77
1918.....	16.7	16.8	0.78	1.17	66
Mean of 10 years 1909-1918	22.2	14.9	1.73	1.19	110
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.1	—2.9	—0.48	+0.04	+11
<i>Ten Years' Average</i>	—4.4	—1.0	—1.43	+0.02	—33

Eccles (Borough).—

1919.....	15.1	11.1	0.58	0.96	68
1918.....	15.1	15.1	0.70	1.28	78
Mean of 10 years 1909-1918	20.4	13.9	1.27	1.08	101
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	nil.	—4.0	—0.12	—0.32	—10
<i>Ten Years' Average</i>	—5.3	—2.8	—0.69	—0.12	—33

Failsworth.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	15.3	11.6	0.41	1.25	78
1918.....	14.0	17.1	0.78	1.04	95
Mean of 10 years					
1909-1918	23.0	14.9	1.33	1.24	113
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.3	—5.5	—0.37	+0.21	—17
<i>Ten Years' Average</i>	—7.7	—3.3	—0.92	+0.01	—35

Farnworth.—

1919.....	17.0	16.9	0.64	1.07	127
1918.....	19.3	17.1	1.29	1.33	113
Mean of 10 years					
1909-1918	21.8	15.2	2.04	0.99	146
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—2.3	—0.2	—0.65	—0.26	+14
<i>Ten Years' Average</i>	—4.8	+1.7	—1.40	+0.08	—19

Fleetwood.—

1919.....	18.6	11.4	0.49	0.71	116
1918.....	19.1	17.6	0.99	1.46	95
Mean of 10 years					
1909-1918	24.9	13.3	1.24	0.87	101
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.5	—6.2	—0.50	—0.75	+21
<i>Ten Years' Average</i>	—6.3	—1.9	—0.75	—0.16	+15

Formby.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	12.1	14.3	0.72	0.90	28
1918.....	12.8	14.9	0.75	0.75	26
Mean of 10 years 1909-1918	16.3	10.6	0.65	0.72	52
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.7	—0.6	—0.03	+0.15	+2
<i>Ten Years' Average</i>	—4.2	+3.7	+0.07	+0.18	—24

Fulwood.—

1919.....	10.6	19.2	0.44	0.88	180
1918.....	12.8	25.9	nil.	0.21	44
Mean of 10 years 1909-1918	13.1	13.3	0.51	0.62	52
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—2.2	—6.7	+0.44	+0.67	+136
<i>Ten Years' Average</i>	—2.5	+5.9	—0.07	+0.26	+128

Golborne.—

1919.....	26.3	14.2	0.28	0.28	104
1918.....	19.6	14.1	1.41	0.62	85
Mean of 10 years 1909-1918	27.6	15.6	2.60	0.77	147
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+6.7	+0.1	—1.13	—0.34	+19
<i>Ten Years' Average</i>	—1.3	—1.4	—2.32	—0.49	—43

Grange-over-Sands.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	8.9	15.4	nil.	0.55	nil.
1918.....	8.9	21.0	0.52	2.10	157
Mean of 10 years					
1909-1918	9.1	12.5	0.38	1.26	51
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	nil.	—5.6	—0.52	—1.55	—157
<i>Ten Years' Average</i>	—0.2	+2.9	—0.38	—0.71	—51

Great Crosby.—

1919.....	16.1	10.3	0.53	0.69	86
1918.....	15.8	12.9	0.47	1.03	80
Mean of 10 years					
1909-1918	18.2	10.5	0.73	0.59	78
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.3	—2.6	+0.06	—0.34	+6
<i>Ten Years' Average</i>	—2.1	—0.2	—0.20	+0.10	+8

Great Harwood.—

1919.....	15.0	12.6	0.15	0.52	67
1918.....	11.6	16.2	0.33	0.91	127
Mean of 10 years					
1909-1918	17.5	12.0	0.68	0.73	94
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.4	—3.6	—0.18	—0.39	—60
<i>Ten Years' Average</i>	—2.5	+0.6	—0.53	—0.21	—27

Haslingden (Borough).—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	11.8	15.2	0.45	0.51	130
1918.....	11.3	15.3	0.90	1.16	71
Mean of 10 years					
1909-1918	15.8	14.8	0.90	0.98	116
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+0.5	—0.1	—0.45	—0.65	+59
<i>Ten Years' Average</i>	—4.0	+0.4	—0.45	—0.47	+14

Haydock.—

1919.....	29.4	14.6	0.72	1.54	94
1918.....	29.6	19.6	3.02	1.16	153
Mean of 10 years					
1909-1918	30.1	15.2	2.35	0.71	135
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—0.2	—5.0	—2.30	+0.38	—59
<i>Ten Years' Average</i>	—0.7	—0.6	—1.63	+0.83	—41

Heysham.—

1919.....	10.7	16.7	nil.	1.09	24
1918.....	11.7	19.2	0.27	0.27	104
Mean of 10 years					
1909-1918	12.9	13.6	0.33	0.72	68
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—1.0	—2.5	—0.27	+0.82	—80
<i>Ten Years' Average</i>	—2.2	+3.1	—0.33	+0.37	—41

Heywood (Borough).—

	PER 1,000 OF POPULATION.				
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	15·6	13·4	0·34	0·68	81
1918.....	14·4	22·9	0·54	1·09	112
Mean of 10 years 1909-1918	19·7	17·5	1·27	1·27	130
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1·2	—9·5	—0·20	—0·41	—31
<i>Ten Years' Average</i>	—4·1	—4·1	—0·93	—0·59	—49

Hindley.—

1919.....	22·4	13·3	1·01	0·50	99
1918.....	22·8	18·3	1·45	0·68	129
Mean of 10 years 1909-1918	26·9	16·7	2·44	0·83	142
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0·4	—5·0	—0·44	—0·18	—30
<i>Ten Years' Average</i>	—4·5	—3·4	—1·43	—0·33	—43

Horwich.—

1919.....	16·0	10·9	0·40	0·93	27
1918.....	15·8	15·1	0·62	0·76	98
Mean of 10 years 1909-1918	20·0	12·0	1·06	0·81	96
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0·2	—4·2	—0·22	+0·17	—71
<i>Ten Years' Average</i>	—4·0	—1·1	—0·66	+0·12	—69

Hurst.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	19.0	13.2	0.38	0.90	58
1918.....	16.0	17.6	1.20	1.06	125
Mean of 10 years 1909-1918	23.3	16.6	1.50	1.22	125
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.0	—4.4	—0.82	—0.16	—67
<i>Ten Years' Average</i>	—4.3	—3.4	—1.12	—0.32	—67

Huyton-with-Roby.—

1919.....	19.0	13.6	nil.	0.91	68
1918.....	16.9	18.5	1.18	0.71	137
Mean of 10 years 1909-1918	17.0	12.5	0.63	0.54	81.
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.1	—4.9	—1.18	+0.20	—69
<i>Ten Years' Average</i>	+2.0	+1.1	—0.63	+0.37	—13

Ince-in-Makerfield.—

1919.....	25.3	15.7	0.36	0.77	129
1918.....	25.3	20.5	1.70	1.60	111
Mean of 10 years 1909-1918	31.2	18.6	3.07	0.86	152
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	nil.	—4.8	—1.34	—0.83	+18
<i>Ten Years' Average</i>	—5.9	—2.9	—2.71	—0.09	—23

Irlam.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	17·6	12·1	0·34	0·34	129
1918.....	22·6	13·7	0·47	0·82	55
Mean of 10 years					
1909-1918	24·9	12·0	1·11	0·60	97
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—5·0	—1·6	—0·13	—0·48	+74
<i>Ten Years' Average</i>	—7·3	+0·1	—0·77	—0·26	+32

Kearsley.—

1919.....	21·3	15·9	0·64	0·42	91
1918.....	18·4	17·5	0·57	0·80	122
Mean of 10 years					
1909-1918	22·1	14·4	1·58	0·86	136
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2·9	—1·6	+0·07	—0·38	—31
<i>Ten Years' Average</i>	—0·8	+1·5	—0·94	—0·44	—45

Kirkham.—

1919.....	13·2	15·7	0·54	0·81	156
1918.....	18·5	17·3	1·22	1·22	58
Mean of 10 years					
1909-1918	19·7	17·4	1·70	1·42	159
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—5·3	—1·6	—0·68	—0·41	+98
<i>Ten Years' Average</i>	—6·5	—1·7	—1·16	—0·61	—3

Lancaster (Borough).—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	17.8	14.6	0.35	1.14	94
1918.....	15.6	17.2	0.83	1.28	138
Mean of 10 years					
1909-1918	19.3	14.2	0.78	1.25	108
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+2.2	—2.6	—0.48	—0.14	—44
<i>Ten Years' Average</i>	—1.5	+0.4	—0.43	—0.11	—14

Lathom and Burscough.—

1919.....	19.2	15.1	0.57	0.28	93
1918.....	18.0	22.3	1.75	1.02	144
Mean of 10 years					
1909-1918	22.3	14.1	0.83	0.82	93
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1.2	—7.2	—1.18	—0.74	51
<i>Ten Years' Average</i>	—3.1	+1.0	—0.26	—0.54	nil.

Lees.—

1919.....	15.9	16.5	0.42	0.63	89
1918.....	16.3	25.6	2.35	0.47	192
Mean of 10 years					
1909-1918	21.9	19.2	1.87	0.96	163
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—0.4	—9.1	—1.93	+0.16	—103
<i>Ten Years' Average</i>	—6.0	—2.7	—1.45	—0.33	—74

Leigh (Borough).—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	21.2	15.5	1.43	1.12	101
1918.....	20.2	17.8	1.64	1.47	143
Mean of 10 years					
1909-1918	25.0	16.5	2.32	1.20	148
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.0	—2.3	—0.21	—0.35	—42
<i>Ten Years' Average</i>	—3.8	—1.0	—0.89	—0.08	—47

Leyland.—

1919.....	14.2	13.0	0.11	1.12	113
1918.....	18.4	15.6	1.32	0.72	75
Mean of 10 years					
1909-1918	20.6	13.9	0.95	0.83	98
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—4.2	—2.6	—1.21	+0.40	+38
<i>Ten Years' Average</i>	—6.4	—0.9	—0.84	+0.29	+15

Litherland.—

1919.....	24.0	14.9	1.01	1.36	85
1918.....	25.8	19.4	1.75	1.75	65
Mean of 10 years					
1909-1918	30.1	15.2	1.93	1.11	115
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.8	—4.5	—0.74	—0.39	+20
<i>Ten Years' Average</i>	—6.1	—0.3	—0.92	+0.25	—30

Littleborough.—

	PER 1,000 OF POPULATION.				
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	14·9	16·3	0·26	0·62	85
1918.....	12·7	20·2	0·95	0·66	93
Mean of 10 years					
1909-1918	16·5	15·3	0·66	0·91	105
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	+2·2	—3·9	—0·69	—0·04	—8
<i>Ten Years' Average</i>	—1·6	+1·0	—0·40	—0·29	—20

Little Crosby.—

1919.....	19·7	6·8	nil.	nil.	nil.
1918.....	17·0	17·8	nil.	2·38	125
Mean of 10 years					
1909-1918	20·8	10·3	0·43	0·70	52
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	+2·7	—11·0	nil.	—2·38	—125
<i>Ten Years' Average</i>	—1·1	—3·5	—0·43	—0·70	—52

Little Hulton.—

1919.....	17·5	13·6	0·25	1·02	97
1918.....	17·8	15·3	1·04	0·91	98
Mean of 10 years					
1909-1918	23·4	13·7	1·49	1·02	104
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	—0·3	—1·7	—0·79	+0·11	—1
<i>Ten Years' Average</i>	—5·9	—0·1	—1·24	nil.	—7

Little Lever.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	14·5	16·0	1·30	0·86	100
1918.....	13·8	16·2	3·20	0·91	117
Mean of 10 years					
1909-1918	19·7	14·7	2·03	0·87	126
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0·7	—0·2	—1·90	—0·05	—17
<i>Ten Years' Average</i>	—5·2	+1·3	—0·73	—0·01	—26

Longridge.—

1919.....	15·6	17·3	0·24	1·73	121
1918.....	12·7	16·1	0·52	0·78	127
Mean of 10 years					
1909-1918	20·1	15·5	0·94	1·04	138
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2·9	+1·2	—0·28	+0·95	—6
<i>Ten Years' Average</i>	—4·5	+1·8	—0·70	+0·69	—17

Lytham.—

1919.....	10·0	14·0	1·42	0·40	87
1918.....	10·2	13·0	0·11	0·33	19
Mean of 10 years					
1909-1918	13·0	12·9	0·63	0·62	68
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0·2	+1·0	+1·31	+0·07	+68
<i>Ten Years' Average</i>	—3·0	+1·1	+0·79	—0·22	+19

Middleton (Borough).—

	PER 1,000 OF POPULATION.				
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	14·0	14·0	0·54	0·68	76
1918.....	13·0	17·2	0·86	1·17	80
Mean of 10 years					
1909-1918	19·3	15·1	1·21	1·13	109
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·0	—3·2	—0·32	—0·49	—4
<i>Ten Years' Average</i>	—5·3	—1·1	—0·67	—0·45	—33

Milnrow.—

1919.....	14·2	13·2	0·37	1·12	67
1918.....	11·9	21·4	2·01	1·20	110
Mean of 10 years					
1909-1918	16·9	16·0	1·07	0·99	111
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+2·3	—8·2	—1·64	—0·08	—43
<i>Ten Years' Average</i>	—2·7	—2·8	—0·70	+0·13	—44

Morecambe (Borough).—

1919.....	14·6	17·8	nil.	0·67	53
1918.....	13·4	14·2	0·19	0·84	60
Mean of 10 years					
1909-1918	13·3	13·7	0·34	0·83	92
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·2	+3·6	—0·19	—0·17	—7
<i>Ten Years' Average</i>	+1·3	+4·1	—0·34	—0·16	—39

Mossley (Borough).—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	17.2	15.3	0.16	0.56	81
1918.....	13.8	14.9	nil.	0.88	68
Mean of 10 years					
1909-1918	18.3	15.4	0.55	1.02	92
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.4	+0.4	+0.16	—0.32	+13
<i>Ten Years' Average</i>	—1.1	—0.1	—0.39	—0.46	—11

Nelson (Borough).—

1919.....	9.0	11.6	0.28	0.38	69
1918.....	9.9	14.9	0.58	0.99	112
Mean of 10 years					
1909-1918	15.3	11.5	0.77	0.73	100
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.9	—3.3	—0.30	—0.61	—43
<i>Ten Years' Average</i>	—6.3	+0.1	—0.49	—0.35	—31

Newton-in-Makerfield.—

1919.....	20.2	13.0	0.57	0.78	106
1918.....	20.3	15.6	0.53	1.18	62
Mean of 10 years					
1909-1918	24.3	13.2	1.47	1.02	103
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.1	—2.6	+0.04	—0.40	+44
<i>Ten Years' Average</i>	—4.1	—0.2	—0.90	—0.24	+3

Norden.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	12.1	13.9	0.25	0.51	102
1918.....	13.2	18.5	0.28	0.84	94
Mean of 10 years 1909-1918	17.6	13.8	0.69	0.88	91
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.1	—4.6	—0.03	—0.33	+8
<i>Ten Years' Average</i>	—5.5	+0.1	—0.44	—0.37	+11

Ormskirk.—

1919.....	20.2	18.0	0.75	1.35	85
1918.....	20.7	19.0	0.48	2.09	90
Mean of 10 years 1909-1918	22.3	15.7	0.89	1.40	100
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.5	—1.0	+0.27	—0.74	—5
<i>Ten Years' Average</i>	—2.1	+2.3	—0.14	—0.05	—15

Orrell.—

1919.....	19.5	12.4	0.45	0.90	88
1918.....	19.8	16.8	0.96	nil.	129
Mean of 10 years 1909-1918	25.5	14.6	2.06	0.75	147
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.3	—4.4	—0.51	+0.90	—41
<i>Ten Years' Average</i>	—6.0	—2.2	—1.61	+0.15	—59

Oswaldtwistle.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	15·9	15·6	0·20	0·48	133
1918.....	15·8	17·4	1·51	1·28	123
Mean of 10 years					
1909-1918	20·0	14·6	1·20	0·75	120
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0·1	—1·8	—1·31	—0·80	+10
<i>Ten Years' Average</i>	—4·1	+1·0	—1·00	—0·27	+13

Padiham.—

1919.....	15·2	15·3	0·24	0·88	86
1918.....	13·1	16·9	1·89	1·04	141
Mean of 10 years					
1909-1918	19·9	15·5	1·27	1·02	136
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2·1	—1·6	—1·65	—0·16	—55
<i>Ten Years' Average</i>	—4·7	—0·2	—1·03	—0·14	—50

Poulton-le-Fylde.—

1919.....	15·7	14·0	0·40	nil.	73
1918.....	12·1	19·9	0·42	2·12	nil.
Mean of 10 years					
1909-1918	16·1	13·5	0·36	0·48	85
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3·6	—5·9	—0·02	—2·12	+73
<i>Ten Years' Average</i>	—0·4	+0·5	+0·04	—0·48	—12

Preesall.—

	PER 1,000 OF POPULATION				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	18·0	12·9	nil.	0·64	68
1918.....	10·7	14·1	nil.	0·67	55
Mean of 10 years					
1909-1918	17·9	11·1	0·52	0·39	74
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+7·3	—1·2	nil.	—0·03	+13
<i>Ten Years' Average</i>	+0·1	+1·8	—0·52	+0·25	—6

Prescot.—

1919.....	20·6	15·4	0·81	1·04	97
1918.....	21·5	18·7	3·74	1·74	108
Mean of 10 years					
1909-1918	27·8	16·0	2·27	1·13	110
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0·9	—3·3	—2·93	—0·70	—11
<i>Ten Years' Average</i>	—7·2	—0·6	—1·46	—0·09	—13

Prestwich.—

1919.....	13·4	14·4	0·52	1·36	60
1918.....	11·6	14·9	0·63	1·54	59
Mean of 10 years					
1909-1918	18·8	12·3	0·69	0·90	74
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1·8	—0·5	—0·11	—0·18	+1
<i>Ten Years' Average</i>	—5·4	+2·1	—0·17	+0·46	—14

Radcliffe.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	15.1	18.3	0.89	0.93	102
1918.....	14.7	16.5	0.68	1.23	83
Mean of 10 years					
1909-1918	17.7	15.0	1.02	0.88	122
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.4	+1.8	+0.21	—0.30	+19
<i>Ten Years' Average</i>	—2.6	+3.3	—0.13	+0.05	—20

Rainford.—

1919.....	19.1	12.0	nil	nil.	45
1918.....	22.5	14.2	0.64	0.64	12
Mean of 10 years					
1909-1918	25.7	12.8	0.70	0.38	76
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—3.4	—2.2	—0.64	—0.64	+33
<i>Ten Years' Average</i>	—6.6	—0.8	—0.70	—0.38	—31

Ramsbottom.—

1919.....	13.7	14.3	0.40	0.74	71
1918.....	11.1	17.0	0.66	0.74	88
Mean of 10 years					
1909-1918	15.8	14.6	0.93	0.98	100
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.6	—2.7	—0.26	nil.	—17
<i>Ten Years' Average</i>	—2.1	—0.3	—0.53	—0.24	—29

Rawtenstall (Borough).—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	12.5	12.8	0.25	1.02	55
1918.....	12.8	17.2	0.71	1.10	102
Mean of 10 years					
1909-1918	17.5	14.3	0.74	0.87	101
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—0.3	—4.4	—0.46	—0.08	—47
<i>Ten Years' Average</i>	—5.0	—1.5	—0.49	+0.15	—46

Rishton.—

1919.....	13.9	10.5	0.41	0.41	84
1918.....	12.5	15.2	0.31	0.79	56
Mean of 10 years					
1909-1918	16.9	11.8	0.61	0.95	85
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1.4	—4.7	+0.10	—0.38	+28
<i>Ten Years' Average</i>	—3.0	—1.3	—0.20	—0.54	—1

Royton.—

1919	11.9	13.6	0.62	0.79	141
1918	14.2	23.0	0.66	1.45	157
Mean of 10 years					
1909-1918	22.3	17.3	1.29	1.00	128
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—2.3	—9.4	—0.04	—0.66	—16
<i>Ten Years' Average</i>	—10.4	—3.7	—0.67	—0.21	+13

St. Annes-on-the-Sea.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	10·1	14·2	1·04	0·83	79
1918.....	8·2	11·5	0·59	0·59	43
Mean of 10 years					
1909-1918	11·1	11·0	0·44	0·52	67
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1·9	+2·7	+0·45	+0·24	+36
<i>Ten Years' Average</i>	—1·0	+3·2	+0·60	+0·31	+12

Skelmersdale.—

1919.....	24·0	14·4	1·09	0·46	93
1918.....	24·1	19·6	1·28	1·28	124
Mean of 10 years					
1909-1918	28·5	16·4	2·07	0·74	143
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0·1	—5·2	—0·19	—0·82	—31
<i>Ten Years' Average</i>	—4·5	—2·0	—0·98	—0·28	—50

Standish-with-Langtree.—

1919.....	20·6	14·8	0·85	0·42	153
1918.....	22·5	15·9	1·19	0·59	106
Mean of 10 years					
1909-1918	25·4	13·7	1·25	0·54	122
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1·9	—1·1	—0·34	—0·17	+47
<i>Ten Years' Average</i>	—4·8	+1·1	—0·40	—0·12	+31

Stretford.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	12.8	12.3	0.21	0.96	76
1918.....	12.5	14.0	0.54	1.00	62
Mean of 10 years 1909-1918	16.4	11.6	0.75	0.84	86
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.3	—1.7	—0.33	—0.04	+14
<i>Ten Years' Average</i>	—3.6	+0.7	—0.54	+0.12	—10

Swinton and Pendlebury.—

1919.....	18.7	13.5	0.74	0.85	96
1918.....	16.5	16.8	0.61	1.45	100
Mean of 10 years 1909-1918	22.1	14.5	1.53	1.11	133
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.2	—3.3	+0.13	—0.60	—4
<i>Ten Years' Average</i>	—3.4	—1.0	—0.79	—0.26	—37

Thornton.—

1919.....	16.5	12.3	0.39	0.58	79
1918.....	14.4	17.4	0.42	1.06	78
Mean of 10 years 1909-1918	21.1	12.5	0.54	0.76	83
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.1	—5.1	—0.03	—0.48	+1
<i>Ten Years' Average</i>	—4.6	—0.2	—0.15	—0.18	—4

Tottington.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	10·5	14·4	1·03	1·18	81
1918.....	10·9	18·8	0·67	2·18	82
Mean of 10 years					
1909-1918	15·4	13·2	0·81	1·03	91
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0·4	—4·4	+0·36	—1·00	—1
<i>Ten Years' Average</i>	—4·9	+1·2	+0·22	+0·15	—10

Trawden.—

1919.....	13·6	10·8	0·37	0·74	26
1918.....	10·5	16·7	1·22	nil.	63
Mean of 10 years					
1909-1918	19·4	13·2	0·76	0·92	109
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3·1	—5·9	—0·85	+0·74	—42
<i>Ten Years' Average</i>	—5·8	—2·4	—0·39	—0·18	—83

Turton.—

1919.....	12·1	13·4	0·33	0·41	66
1918.....	9·9	13·8	0·93	0·46	67
Mean of 10 years					
1909-1918	15·3	12·4	0·50	0·73	79
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2·2	—0·4	—0·60	—0·05	—1
<i>Ten Years' Average</i>	—3·2	+1·0	—0·17	—0·32	—13

Tyldesley-with-Shakerley.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	21·9	15·8	0·83	1·08	115
1918.....	23·4	17·0	1·70	0·52	73
Mean of 10 years 1909-1918	25·1	15·1	2·28	0·95	120
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1·5	—1·2	—0·87	+0·56	+42
<i>Ten Years' Average</i>	—3·2	+0·7	—1·45	+0·13	—5

Ulverston.—

1919.....	20·6	14·3	0·40	0·80	65
1918.....	20·2	19·4	0·97	0·58	76
Mean of 10 years 1909-1918	21·2	15·0	1·04	0·73	100
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0·4	—5·1	—0·57	+0·22	—11
<i>Ten Years' Average</i>	—0·6	—0·7	—0·64	+0·07	—35

Upholland.—

1919.....	27·4	11·8	0·78	0·19	55
1918.....	19·1	17·3	1·44	0·61	115
Mean of 10 years 1909-1918	26·7	14·4	1·49	0·74	117
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+8·3	—5·5	—0·66	—0·42	—60
<i>Ten Years' Average</i>	+0·7	—2·6	—0·71	—0·55	—62

Urmston.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	13·3	11·5	0·23	0·83	34
1918.....	13·7	12·1	0·25	0·89	58
Mean of 10 years					
1909-1918	17·7	10·8	0·88	0·87	70
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—0·4	—0·6	—0·02	—0·06	—24
<i>Ten Years' Average</i>	—4·4	+0·7	—0·65	—0·04	—36

Walton-le-Dale.—

1919.....	15·4	12·7	0·68	0·85	85
1918.....	14·0	16·6	0·09	1·41	77
Mean of 10 years					
1909-1918	20·0	13·9	0·92	0·90	110
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·4	—3·9	+0·59	—0·56	+8
<i>Ten Years' Average</i>	—4·6	—1·2	—0·24	—0·05	—25

Wardle.—

1919.....	12·7	14·8	nil.	1·51	22
1918.....	9·6	29·3	0·63	2·23	117
Mean of 10 years					
1909-1918	14·6	17·5	0·82	1·11	115
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+3·1	—14·5	—0·63	—0·72	—95
<i>Ten Years' Average</i>	—1·9	—2·7	—0·82	+0·40	—93

Waterloo-with-Seaforth.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	18.6	14.6	0.97	1.14	73
1918.....	19.6	17.0	0.91	1.22	86
Mean of 10 years 1909-1918	21.7	13.6	1.03	1.03	87
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.0	—2.4	+0.06	—0.08	—13
<i>Ten Years' Average</i>	—3.1	+1.0	—0.06	+0.11	—14

Westhoughton.—

1919.....	20.9	12.6	0.39	0.39	99
1918.....	19.2	15.7	2.04	0.58	91
Mean of 10 years 1909-1918	24.8	14.0	1.58	0.62	123
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.7	—3.1	—1.65	—0.19	+8
<i>Ten Years' Average</i>	—3.9	—1.4	—1.19	—0.23	—24

Whitefield.—

1919.....	12.4	12.9	nil.	0.80	104
1918.....	14.2	15.1	0.47	0.78	79
Mean of 10 years 1909-1918	18.0	14.4	1.00	0.73	104
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.8	—2.2	—0.47	+0.02	+25
<i>Ten Years' Average</i>	—5.6	—1.5	—1.00	+0.07	nil.

Whitworth.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	13.3	16.9	0.36	0.97	69
1918.....	11.7	22.3	1.53	1.53	74
Mean of 10 years 1909-1918	16.9	17.9	0.84	1.37	115
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.6	—5.4	—1.17	—0.56	—5
<i>Ten Years' Average</i>	—3.6	—1.0	—0.48	—0.40	—46

Widnes (Borough).—

1919.....	26.0	16.5	1.43	1.22	90
1918.....	23.8	18.8	1.57	1.26	118
Mean of 10 years 1909-1918	29.0	17.3	2.56	1.14	127
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.2	—2.3	—0.14	—0.04	—28
<i>Ten Years' Average</i>	—3.0	—0.8	—1.13	+0.08	—37

Withnell.—

1919.....	14.1	13.0	nil.	0.70	23
1918.....	13.5	17.0	0.36	0.36	119
Mean of 10 years 1909-1918	18.3	12.1	0.60	0.58	71
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.6	—4.0	—0.36	+0.34	—96
<i>Ten Years' Average</i>	—4.2	+0.9	—0.60	+0.12	—48

Worsley.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	13·9	14·1	0·13	0·48	109
1918.....	14·3	14·5	0·53	1·29	71
Mean of 10 years 1909-1918	18·5	12·7	0·98	0·65	108
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—0·4	—0·4	—0·40	—0·81	+38
<i>Ten Years' Average</i>	—4·6	+1·4	—0·85	—0·17	+1

RURAL DISTRICTS.

Barton-upon-Irwell.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	19.0	13.3	nil.	0.80	63
1918.....	15.2	16.2	0.34	1.93	86
Mean of 10 years 1909-1918	19.9	12.3	0.79	0.73	80
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.8	—2.9	—0.34	—1.13	—23
<i>Ten Years' Average</i>	—0.9	+1.0	—0.79	+0.07	—17

Blackburn.—

1919.....	14.0	14.3	0.12	0.86	67
1918.....	12.3	16.6	0.39	0.78	141
Mean of 10 years 1909-1918	18.2	13.8	0.67	0.65	94
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.7	—2.3	—0.27	+0.08	—74
<i>Ten Years' Average</i>	—4.2	+0.5	—0.55	+0.21	—27

Burnley.—

1919.....	12.4	13.5	0.34	0.51	101
1918.....	12.0	14.6	0.35	0.88	79
Mean of 10 years 1909-1918	16.9	13.1	0.70	0.68	107
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.4	—1.1	—0.01	—0.37	+22
<i>Ten Years' Average</i>	—4.5	+0.4	—0.36	—0.17	—6

Bury.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	13·9	15·2	0·45	0·57	79
1918.....	12·3	18·9	0·49	0·85	123
Mean of 10 years					
1909-1918	18·4	14·2	0·95	0·79	97
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·6	—3·7	—0·04	—0·28	—44
<i>Ten Years' Average</i>	—4·5	+1·0	—0·50	—0·22	—18

Chorley.—

1919.....	15·0	12·3	0·23	0·73	102
1918.....	16·3	17·7	1·07	0·71	106
Mean of 10 years					
1909-1918	21·2	13·8	1·04	0·75	111
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	—1·3	—5·4	—0·84	+0·02	—4
<i>Ten Years' Average</i>	—6·2	—1·5	—0·81	—0·02	—9

Clitheroe.—

1919.....	14·9	14·7	0·32	0·48	113
1918.....	13·8	12·4	nil.	0·17	55
Mean of 10 years					
1909-1918	18·1	13·1	0·38	0·79	73
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·1	+2·3	+0·32	+0·31	+58
<i>Ten Years' Average</i>	—3·2	+1·6	—0·06	—0·31	+40

Fylde.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	16.4	12.3	0.27	0.45	58
1918.....	14.5	16.1	0.57	0.57	82
Mean of 10 years					
1909-1918	20.2	12.8	0.97	0.46	90
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	+1.9	—3.8	—0.30	—0.12	—24
<i>Ten Years' Average</i>	—3.8	—0.5	—0.70	—0.01	—32

Garstang.—

1919.....	15.6	13.2	0.38	0.77	89
1918.....	14.6	17.1	0.51	0.41	88
Mean of 10 years					
1909-1918	18.6	12.7	0.36	0.47	74
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	+1.0	—3.9	—0.13	+0.36	+1
<i>Ten Years' Average</i>	—3.0	+0.5	+0.02	+0.30	+15

Lancaster.—

1919.....	18.2	14.9	0.47	1.07	94
1918.....	17.5	21.8	1.13	1.00	141
Mean of 10 years					
1909-1918	17.9	13.6	0.59	0.61	83
<i>Increase or Decrease</i>					
<i>in 1919 on—</i>					
<i>Previous Year</i>	+0.7	—6.9	—0.66	+0.07	—47
<i>Ten Years' Average</i>	+0.3	+1.3	—0.12	+0.46	+11

Leigh.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	19.0	15.3	0.40	0.70	101
1918.....	20.8	17.4	1.78	0.52	99
Mean of 10 years					
1909-1918	25.8	14.5	1.98	0.75	123
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—1.8	—2.1	—1.38	+0.18	+2
<i>Ten Years' Average</i>	—6.8	+0.8	—1.58	—0.05	—22

Limehurst.—

1919.....	15.6	16.0	0.56	0.56	103
1918.....	15.7	15.5	0.48	1.08	116
Mean of 10 years					
1909-1918	21.7	15.1	1.20	1.04	118
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.1	+0.5	+0.08	—0.52	—13
<i>Ten Years' Average</i>	—6.1	+0.9	—0.64	—0.48	—15

Lunesdale.—

1919.....	15.5	12.8	0.33	0.67	104
1918.....	14.8	12.1	0.33	0.33	70
Mean of 10 years					
1909-1918	17.1	11.9	0.46	0.51	70
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.7	+0.7	nil.	+0.34	+34
<i>Ten Years' Average</i>	—1.6	+0.9	—0.13	+0.16	+34

Preston.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	15.2	12.3	0.21	0.64	64
1918.....	15.4	17.6	0.23	0.97	73
Mean of 10 years					
1909-1918	19.7	13.7	0.58	0.80	85
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—0.2	—5.3	—0.02	—0.33	—9
<i>Ten Years' Average</i>	—4.5	—1.4	—0.37	—0.16	—21

Sefton.—

1919.....	14.9	12.3	0.21	0.63	68
1918.....	18.2	14.8	1.12	1.34	65
Mean of 10 years					
1909-1918	17.6	12.7	0.47	1.11	82
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	—3.3	—2.5	—0.91	—0.71	+3
<i>Ten Years' Average</i>	—2.7	—0.4	—0.26	—0.48	—14

Ulverston.—

1919.....	20.3	14.8	0.18	0.99	73
1918.....	16.4	15.2	0.73	0.85	83
Mean of 10 years					
1909-1918	18.5	13.2	0.40	0.70	69
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+3.9	—0.4	—0.55	+0.14	—10
<i>Ten Years' Average</i>	+1.8	+1.6	—0.22	+0.29	+4

Warrington.—

	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth-rate.	Death-rate.	Epidemic Death-rate.	Phthisis Death-rate.	
1919.....	19.0	13.2	nil.	0.98	85
1918.....	17.8	16.4	1.78	0.94	94
Mean of 10 years					
1909-1918	21.2	12.8	1.16	1.03	94
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+1.2	—3.2	—1.78	+0.04	—9
<i>Ten Years' Average</i>	—2.2	+0.4	—1.16	—0.05	—9

West Lancashire.—

1919.....	17.8	16.8	0.36	0.67	86
1918.....	17.3	17.7	0.67	0.78	80
Mean of 10 years					
1909-1918	19.5	12.6	0.66	0.70	85
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.5	—0.9	—0.31	—0.11	+6
<i>Ten Years' Average</i>	—1.7	+4.2	—0.30	—0.03	+1

Whiston.—

1919.....	22.2	17.8	0.52	1.26	105
1918.....	20.0	15.0	1.39	1.19	85
Mean of 10 years					
1909-1918	22.9	13.1	1.25	0.82	95
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+2.2	+2.8	—0.87	+0.07	+20
<i>Ten Years' Average</i>	—0.7	+4.7	—0.73	+0.44	+10

Wigan.—

PER 1,000 OF POPULATION.

	Birth- rate.	Death rate.	Epidemic Death- rate.	Phthisis Death- rate.	Rate of Deaths under 1 year to 1,000 Births.
1919.....	17·6	16·8	0·68	0·51	111
1918.....	16·4	13·9	0·53	1·23	67
Mean of 10 years					
1909-1918	21·5	13·2	0·76	0·64	111
<i>Increase or Decrease</i> <i>in 1919 on—</i>					
<i>Previous Year</i>	+1·2	+2·9	+0·15	—0·72	+44
<i>Ten Years' Average</i>	—3·9	+3·6	—0·08	—0·13	nil.

Aggregate of County Urban Districts—	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	
1919.....	16.58	14.01	0.63	0.81	94
1918.....	16.09	17.40	0.99	1.10	101
Mean of 10 years 1909-1918	20.65	14.60	1.30	0.94	115
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.49	—3.39	—0.36	—0.29	—7
<i>Ten Years' Average</i>	—4.07	—0.59	—0.67	—0.13	—21

Aggregate of County Rural Districts—	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	
1919.....	16.88	14.40	0.41	0.75	88
1918.....	16.06	16.41	0.77	0.88	90
Mean of 10 years 1909-1918	19.94	13.34	0.83	0.74	93
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.82	—2.01	—0.36	—0.13	—2
<i>Ten Years' Average</i>	—3.06	+1.06	—0.42	+0.01	—5

Aggregate of Administrative County—	PER 1,000 OF POPULATION.				Rate of Deaths under 1 year to 1,000 Births.
	Birth- rate.	Death- rate.	Epidemic Death- rate.	Phthisis Death- rate.	
1919.....	16.62	14.06	0.49	0.80	93
1918.....	16.08	17.26	0.96	1.07	100
Mean of 10 years 1909-1918	20.55	14.43	1.23	0.91	113
<i>Increase or Decrease in 1919 on—</i>					
<i>Previous Year</i>	+0.54	—3.20	—0.47	—0.27	—7
<i>Ten Years' Average</i>	—3.93	—0.37	—0.74	—0.11	—20

*EXTRACT FROM THE METEOROLOGICAL REPORT

BY THE

REV. A. L. CORTIE, S.J., F.R.A.S., F. Inst. P.,

Of Stonyhurst College Observatory.

SUMMARY OF OBSERVATIONS FOR 1919.

Results of Observations taken during the Year.						Mean for the last 72 years.
<i>Readings of Barometer in inches.</i>						
Mean of the year	...	...	...	29.496		29.492
Highest Monthly Mean (October)	...			29.767		29.744
Lowest „ „ (January)	...			29.263		29.221
Highest Reading (April)	...	...		30.302		30.291
Lowest „ „ (April)	...	...		28.250		28.202
Range	...	...	...	2.052		2.089
<i>Thermometer, Fahrenheit.</i>						
Highest Monthly Mean Temperature						
			(August)	56.7		58.6
Lowest „ „			(February)	34.7		35.5
Highest Reading of a Max. Therm.						
(June 11th)	...	...	...	76.5		81.4
Lowest Reading of a Min. Therm.						
(February 9th)	...	...	...	19.4		16.0
Range of Thermometer Readings	...			57.1		65.4
Mean of Highest Daily	„	...		52.1		54.5
Mean of Lowest Daily	„	...		40.9		40.9
Mean Daily Range	...	...	...	11.2		13.6
Deduced Mean Temperature (from mean						
of Max. and Min.)	...	...	...	45.5		46.7
Mean Temperature from Dry Bulb	...			46.2		47.1
Adopted Mean Temperature of the Year.				45.9		46.9
Mean Temperature of Evaporation	...			43.4		44.6
Mean Temperature of Dew Point	...			40.7		42.1
Mean elastic force of Vapour	...	inches		0.262		0.274
Mean weight of Vapour in a cubic foot of						
air	...	...	...	3.0		3.2
Mean additional weight required for						
saturation	...	...	...	0.7		0.7
Mean degree of Humidity (saturation 100)				83		83

* Introduced by kind permission.

Results of Observations taken during the Year.				Mean for the last 72 years.
Mean weight of a cubic foot of air.. grains	540.4			539.1
Mean amount of Cloud (0—10)	7.0			7.3
Total fall of Rain . ... ..inches	41.128			47.067
Greatest Monthly Rainfall (Dec.) ,,	6.645			7.605
Least ,, (Feb.) ,,	1.295			1.236
Greatest Rainfall in one day (Mar. 10th) ,,	1.375			1.625
No. of days per Month on which .005 inch or more Rain fell	16.9			17.1

SUMMARY OF WIND.

Prevailing direction	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
No. of days for each	49	47	26	7	46	51	121	18
Mean Velocity in miles per hour ...	6.4	6.2	7.2	8.3	9.2	8.2	10.8	8.2
Total No. of miles for each direction .	7528	7001	4503	1397	10184	10032	31466	3534

				Mean for the last 52 years.
Total No. of miles registered	75645			85664.5
Greatest Monthly Total (December) ...	9468			9981.8
Least ,, (February) ...	3875			4955.5
Greatest hourly velocity (Jan. 2nd, 9th, and Dec. 11th)	40			50.9
Prevailing Direction of Wind	W			W

